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=> fil hcaplus
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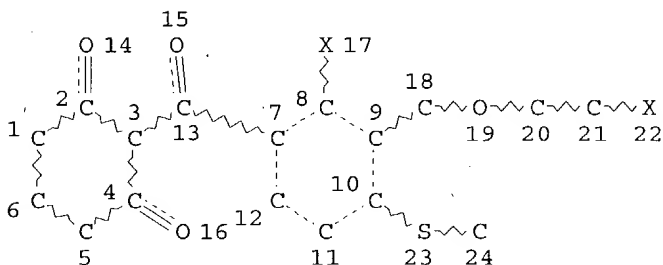
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FILE COVERS 1907 - 30 Jul 2004 VOL 141 ISS 6
FILE LAST UPDATED: 29 Jul 2004 (20040729/ED)
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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1 STR
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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 24
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STEREO ATTRIBUTES: NONE
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L4 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L3
L10 93985 SEA FILE=REGISTRY ABB=ON PLU=ON ETHOXYL? OR ETHYLENE?
L11 280638 SEA FILE=REGISTRY ABB=ON PLU=ON PROPOX? OR PROPYLEN?
L18 1981678 SEA FILE=HCAPLUS ABB=ON PLU=ON L10 OR ?ETHOXYL? OR ?ETHYLENE?
L19 705030 SEA FILE=HCAPLUS ABB=ON PLU=ON L11 OR ?PROPOX? OR ?PROPYLEN?
L20 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND L18 AND L19
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=> d ibib abs hitstr 120 1-4

L20 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:454036 HCAPLUS

DOCUMENT NUMBER: 139:18607

TITLE: Synergistic herbicidal compositions comprising carboxylic acid anilides

INVENTOR(S): Feucht, Dieter; Dahmen, Peter; Drewes, Mark Wilhelm; Pontzen, Rolf; Andree, Roland; Linker, Karl-Heinz

PATENT ASSIGNEE(S): Bayer CropScience AG, Germany

SOURCE: PCT Int. Appl., 135 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

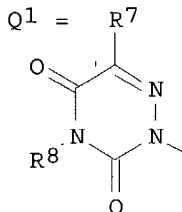
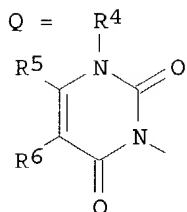
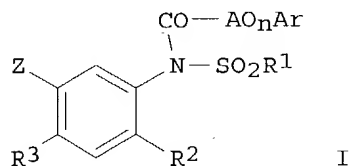
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003047346	A1	20030612	WO 2002-EP13599	20021202
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> <p>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p>				

DE 10159659 A1 20030626 DE 2001-10159659 20011205

PRIORITY APPLN. INFO.: DE 2001-10159659 A 20011205

OTHER SOURCE(S): MARPAT 139:18607

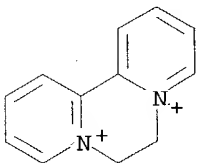
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AB The invention relates to novel herbicidal active substance combinations

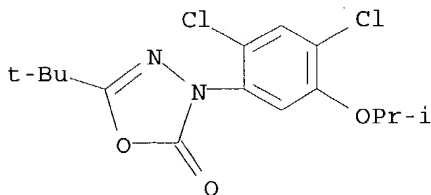
containing known substituted carboxylic acid anilides I [n = 0 or 1; A = alkanediyl or alkenediyl; , Ar = (un)substituted aryl or heterocyclyl; R1 = (un)substituted (halo)alkyl, (halo)alkenyl, (halo)cycloalkyl, aryl aralkyl, etc.; R2 = cyano, carbamoyl thiocarbamoyl, halo, (halo)alkyl or (halo)alkoxy; R3 = H, cyano, carbamoyl, thiocarbamoyl or halo; Z = Q , Q1, etc.; R4 = H, amino, (halo)alkyl; R5 = carboxy, cyano, carbamoyl, thiocarbamoyl, (halo)alkyl or (halo)alkoxycarbonyl; R6 = h, halo, (halo)alkyl; R7 = H, cyano, halo, etc.; R8 = H, (un)sdustituted alkyl, alkoxy, alkylamino, alkylcarbonyl or alkoxycarbonyl] and known herbicides, optionally also containing a safener. The compns. control monocotyl and dicotyl weeds in crops.

IT 85-00-7D, (Diquat dibromide), mixts. with carboxylic acid anilides  
 19666-30-9D, (Oxadiazon), mixts. with carboxylic acid anilides  
 51218-49-6D, (Pretilachlor), mixts. with carboxylic acid anilides  
 119126-15-7D, (Flupoxam), mixts. with carboxylic acid anilides  
 139001-49-3D, (Profoxydim), mixts. with carboxylic acid anilides  
 181274-15-7D, (Propoxycarbazonessodium), mixts. with  
 carboxylic acid anilides 211496-02-5D, Clefoxydim), mixts. with  
 carboxylic acid anilides 335104-84-2D, mixts. with carboxylic  
 acid anilides  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic herbicidal compns.)  
 RN 85-00-7 HCAPLUS  
 CN Dipyrido[1,2-a:2',1'-c]pyrazinedium, 6,7-dihydro-, dibromide (8CI, 9CI)  
 (CA INDEX NAME)

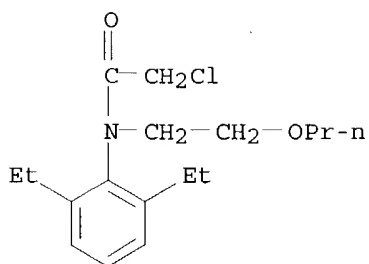


● 2 Br<sup>-</sup>

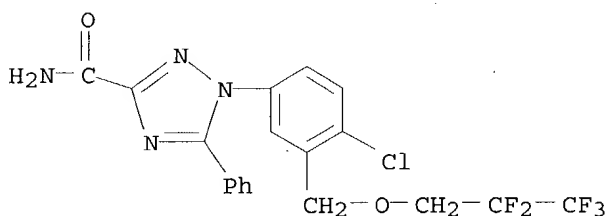
RN 19666-30-9 HCAPLUS  
 CN 1,3,4-Oxadiazol-2(3H)-one, 3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



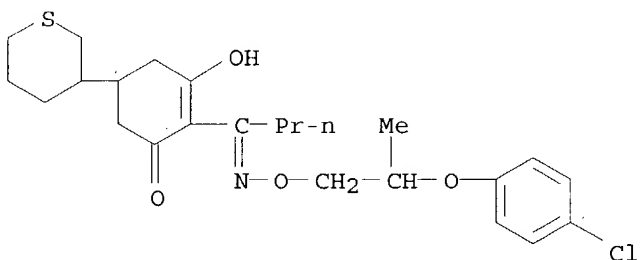
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 CN Acetamide, 2-chloro-N-(2,6-diethylphenyl)-N-(2-propoxyethyl)- (9CI) (CA INDEX NAME)



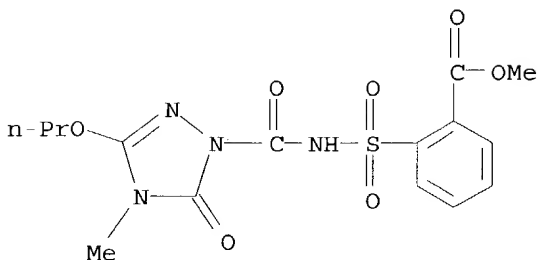
RN 119126-15-7 HCAPLUS  
 CN 1H-1,2,4-Triazole-3-carboxamide, 1-[4-chloro-3-[(2,2,3,3,3-pentafluoropropoxy)methyl]phenyl]-5-phenyl- (9CI) (CA INDEX NAME)



RN 139001-49-3 HCAPLUS  
 CN 2-Cyclohexen-1-one, 2-[1-[[2-(4-chlorophenoxy)propoxy]imino]butyl]-3-hydroxy-5-(tetrahydro-2H-thiopyran-3-yl)- (9CI) (CA INDEX NAME)



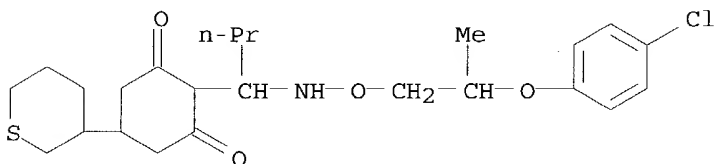
RN 181274-15-7 HCAPLUS  
 CN Benzoic acid, 2-[[[(4,5-dihydro-4-methyl-5-oxo-3-propoxy-1H-1,2,4-triazol-1-yl)carbonyl]amino]sulfonyl]-, methyl ester, sodium salt (9CI) (CA INDEX NAME)



● Na

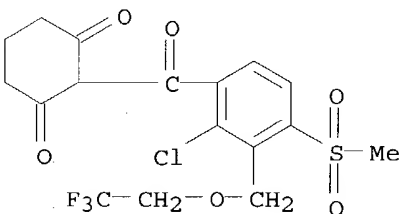
RN 211496-02-5 HCAPLUS

CN 1,3-Cyclohexanedione, 2-[1-[[2-(4-chlorophenoxy)propoxy]amino]butyl]-5-(tetrahydro-2H-thiopyran-3-yl)- (9CI) (CA INDEX NAME)



RN 335104-84-2 HCAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:261581 HCAPLUS

DOCUMENT NUMBER: 138:267210

TITLE: Herbicides containing substituted thien-3-yl-sulfonylamino(thio)carbonyl-triazolin(thi)one

INVENTOR(S): Feucht, Dieter; Dahmen, Peter; Drewes, Mark Wilhelm; Pontzen, Rolf; Gesing, Ernst Rudolf F.

PATENT ASSIGNEE(S): Bayer CropScience AG, Germany

SOURCE: PCT Int. Appl., 135 pp.

CODEN: PIXXD2

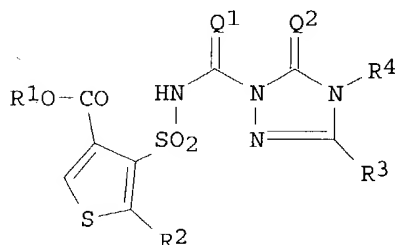
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003026426	A1	20030403	WO 2002-EP10103	20020910
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> <p>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p>				
DE 10146591	A1	20030410	DE 2001-10146591	20010921
EP 1429612	A1	20040623	EP 2002-772283	20020910
<p>R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK</p>				
PRIORITY APPLN. INFO.:			DE 2001-10146591 A	20010921
			WO 2002-EP10103 W	20020910
OTHER SOURCE(S):		MARPAT 138:267210		
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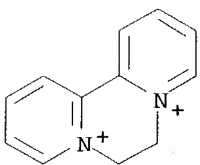
AB The invention relates to synergistic herbicidal agents, characterized by an active content of an active ingredient combination comprising (a) one or more compds. of formula (I), in which Q1, Q2, R1, R2, R3 and R4 are defined as per the description, in addition to salts of the compds. of formula I and (b) at least one of the known herbicides listed in the description, in addition to (c) optionally a safener. The invention also relates to the use of the agents for combating undesired plant growth and to a method for producing the inventive agents.

IT 85-00-7, Diquat dibromide 19666-30-9, Oxadiazon 51218-49-6, Pretilachlor 119126-15-7, Flupoxam 139001-49-3, Profoxydim 181274-15-7, Propoxycarbazone-sodium 211496-02-5, Clefoxydim 335104-84-2

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(herbicides containing substituted thien-3-yl-sulfonylamino(thio)carbonyl-triazolin(thione))

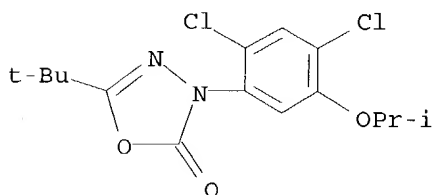
RN 85-00-7 HCAPLUS

CN Dipyrido[1,2-a:2',1'-c]pyrazinediium, 6,7-dihydro-, dibromide (8CI, 9CI)  
(CA INDEX NAME)

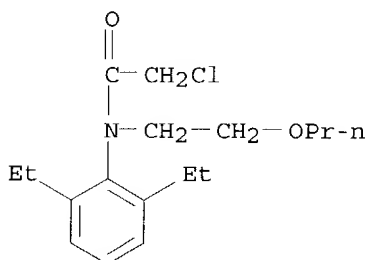


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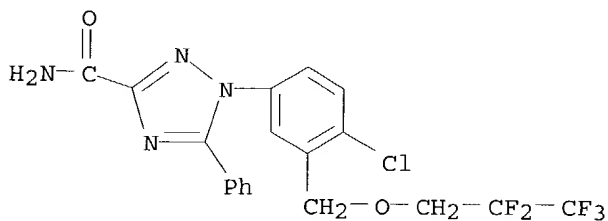
RN 19666-30-9 HCAPLUS  
CN 1,3,4-Oxadiazol-2(3H)-one, 3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 51218-49-6 HCAPLUS  
CN Acetamide, 2-chloro-N-(2,6-diethylphenyl)-N-(2-propoxyethyl)- (9CI) (CA INDEX NAME)

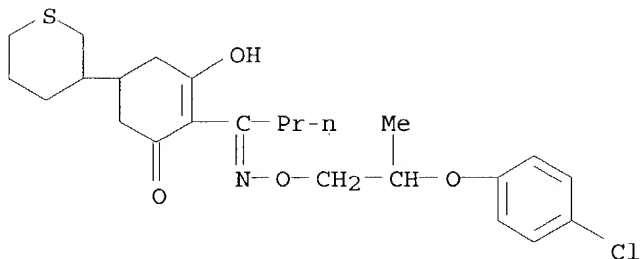


RN 119126-15-7 HCAPLUS  
CN 1H-1,2,4-Triazole-3-carboxamide, 1-[4-chloro-3-[(2,2,3,3,3-pentafluoropropoxy)methyl]phenyl]-5-phenyl- (9CI) (CA INDEX NAME)



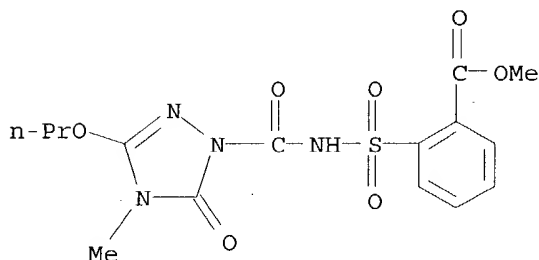
RN 139001-49-3 HCAPLUS  
CN 2-Cyclohexen-1-one, 2-[1-[[2-(4-chlorophenoxy)propoxy]imino]butyl]-3-

hydroxy-5-(tetrahydro-2H-thiopyran-3-yl)- (9CI) (CA INDEX NAME)



RN 181274-15-7 HCAPLUS

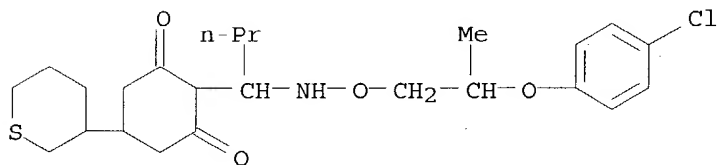
CN Benzoic acid, 2-[[[(4,5-dihydro-4-methyl-5-oxo-3-propoxy-1H-1,2,4-triazol-1-yl)carbonyl]amino]sulfonyl]-, methyl ester, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 211496-02-5 HCAPLUS

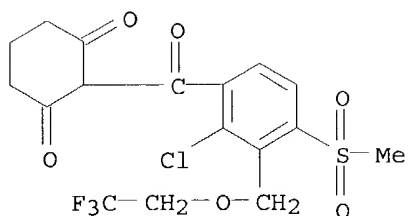
CN 1,3-Cyclohexanedione, 2-[1-[[2-(4-chlorophenoxy)propoxy]amino]butyl]-5-(tetrahydro-2H-thiopyran-3-yl)- (9CI) (CA INDEX NAME)



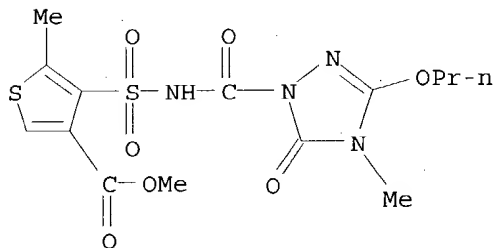
RN 335104-84-2 HCAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]- (9CI) (CA INDEX NAME)

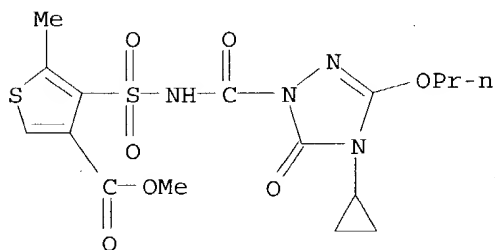




IT 317815-84-2 317815-88-6  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
 (herbicides containing substituted thien-3-yl-sulfonylamino(thio)carbonyl-triazolin(thi)one)  
 RN 317815-84-2 HCAPLUS  
 CN 3-Thiophenecarboxylic acid, 4-[[[(4,5-dihydro-4-methyl-5-oxo-3-propoxy-1H-1,2,4-triazol-1-yl)carbonyl]amino]sulfonyl]-5-methyl-, methyl ester (9CI)  
 (CA INDEX NAME)



RN 317815-88-6 HCAPLUS  
 CN 3-Thiophenecarboxylic acid, 4-[[[(4-cyclopropyl-4,5-dihydro-5-oxo-3-propoxy-1H-1,2,4-triazol-1-yl)carbonyl]amino]sulfonyl]-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:202383 HCAPLUS

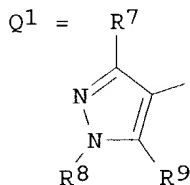
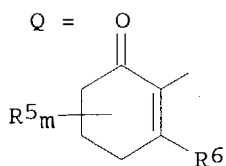
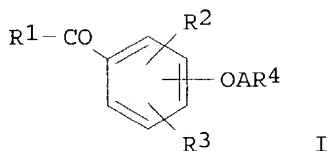
DOCUMENT NUMBER: 138:233416

TITLE: Synergistic herbicidal mixtures comprising phenyl ketones

INVENTOR(S): Feucht, Dieter; Dahmen, Peter; Drewes, Mark Wilhelm; Pontzen, Rolf; Hoischen, Dorothee; Mueller, Klaus-Helmut; Schwarz, Hans-Georg; Herrmann, Stefan; Kather, Kristian; Schallner, Otto; Goto, Toshio;

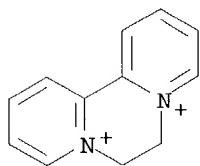
PATENT ASSIGNEE(S): Shirakura, Shinichi  
 SOURCE: Bayer CropScience AG, Germany  
 PCT Int. Appl., 225 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003020033	A1	20030313	WO 2002-EP9243	20020819
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10142333	A1	20030320	DE 2001-10142333	20010830
EP 1423005	A1	20040602	EP 2002-758472	20020819
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PRIORITY APPLN. INFO.:			DE 2001-10142333 A	20010830
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OTHER SOURCE(S):			MARPAT 138:233416	
GI				

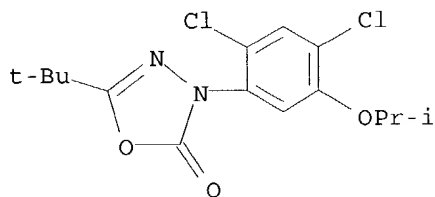


AB The title mixts. comprise an Ph ketone I [A = alkylene; R1 Q, Q1, etc.; R2, R3 = H, NO2, CN, CO2H, (un)substituted alkyl, alkoxy, alkylthio, etc.; R4 = (un)substituted heterocyclyl; R5 = halo, (un)substituted alkyl, alkoxy, alkoxy, etc.; R6 = OH, formyloxy, halo, (un)substituted alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, etc.; R7 = H, CN, (un)substituted alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, etc.; R8 = H, (un)substituted alkyl, alkenyl, alkynyl, etc.; R9 = OH, formyloxy, (un)substituted alkoxy, alkylsulfonyloxy, etc.; m = 0, 1-6] and any of a very large number of conventional herbicides, and, optionally, a known safener.

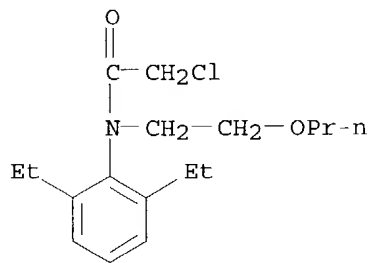
IT 2764-72-9D, (Diquat), mixts. with Ph ketones 19666-30-9D  
 , (Oxadiazon, mixts. with Ph ketones 51218-49-6D, Pretilachlor,  
 mixts. with Ph ketones 119126-15-7D, (Flupoxam), mixts. with Ph  
 ketones 139001-49-3D, Profoxydim), mixts. with Ph ketones  
 181274-15-7D, (Propoxycarbazonosodium), mixts. with Ph  
 ketones 211496-02-5D, (Clefoxydim), mixts. with Ph ketones  
 335104-84-2D, mixts. with Ph ketones  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic herbicidal compns.)  
 RN 2764-72-9 HCAPLUS  
 CN Dipyrido[1,2-a:2',1'-c]pyrazinediium, 6,7-dihydro- (8CI, 9CI) (CA INDEX  
 NAME)



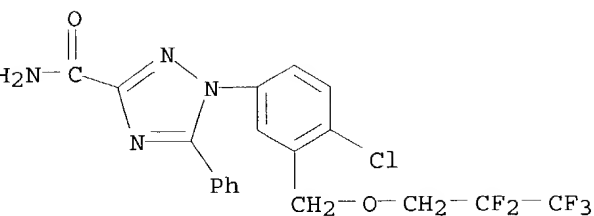
RN 19666-30-9 HCAPLUS  
 CN 1,3,4-Oxadiazol-2(3H)-one, 3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(  
 (1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



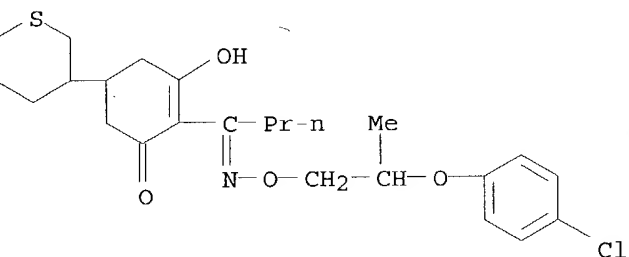
RN 51218-49-6 HCAPLUS  
 CN Acetamide, 2-chloro-N-(2,6-diethylphenyl)-N-(2-propoxyethyl)- (9CI) (CA  
 INDEX NAME)



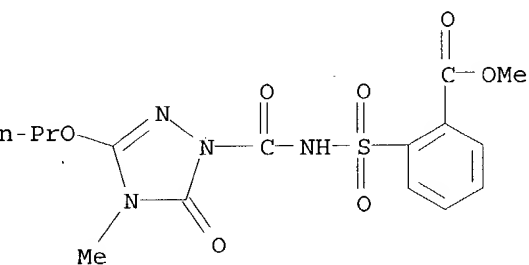
RN 119126-15-7 HCAPLUS  
 CN 1H-1,2,4-Triazole-3-carboxamide, 1-[4-chloro-3-[(2,2,3,3,3-pentafluoropropoxy)methyl]phenyl]-5-phenyl- (9CI) (CA INDEX NAME)



RN 139001-49-3 HCAPLUS  
CN 2-Cyclohexen-1-one, 2-[1-[[2-(4-chlorophenoxy)propoxy]imino]butyl]-3-hydroxy-5-(tetrahydro-2H-thiopyran-3-yl)- (9CI) (CA INDEX NAME)

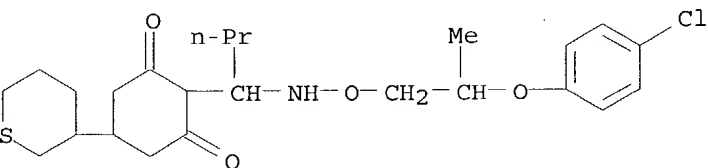


RN 181274-15-7 HCAPLUS  
CN Benzoic acid, 2-[[[(4,5-dihydro-4-methyl-5-oxo-3-propoxy-1H-1,2,4-triazol-1-yl)carbonyl]amino]sulfonyl]-, methyl ester, sodium salt (9CI) (CA INDEX NAME)

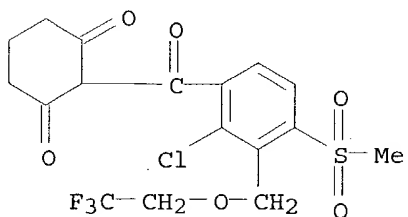


● Na

RN 211496-02-5 HCAPLUS  
CN 1,3-Cyclohexanedione, 2-[1-[[2-(4-chlorophenoxy)propoxy]amino]butyl]-5-(tetrahydro-2H-thiopyran-3-yl)- (9CI) (CA INDEX NAME)



RN 335104-84-2 HCAPLUS  
 CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:173349 HCAPLUS

DOCUMENT NUMBER: 138:200324

TITLE: Synergistic herbicidal compositions comprising aryl ketones

INVENTOR(S): Feucht, Dieter; Dahmen, Peter; Drewes, Mark Wilhelm; Pontzen, Rolf; Hoischen, Dorothee; Mueller, Klaus-Helmut; Schwarz, Hans-Georg; Herrmann, Stefan; Kather, Kristian; Schallner, Otto; Goto, Toshio; Shirakura, Shinichi

PATENT ASSIGNEE(S): Bayer CropScience AG, Germany; et al.

SOURCE: PCT Int. Appl., 180 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

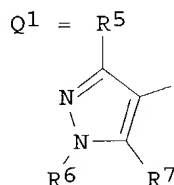
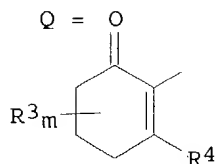
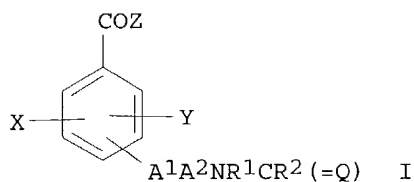
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003017766	A2	20030306	WO 2002-EP9236	20020819
WO 2003017766	A3	20031120		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10142334	A1	20030320	DE 2001-10142334	20010830
EP 1423009	A2	20040602	EP 2002-772170	20020819
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:				
			DE 2001-10142334 A	20010830
			WO 2002-EP9236 W	20020819

OTHER SOURCE(S): MARPAT 138:200324

GI

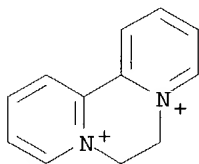


AB Synergistic herbicidal compns. comprise aryl ketones I [A1 = bond or O; A2 = alkylene, alkenediyl or alkynediyl; Q = O or S; R1 = H, (un)substituted alkyl, alkylthio, alkylsulfinyl, alkylsulfonyl, etc.; R2 = H, amino, cyanamino, nitroamino, etc.; X, Y = H, nitro, cyano, carboxy, carbamoyl, thiocarbamoyl, halo, (un)substituted alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl etc.; Z = Q, Q1, etc.; m = 0, 1-6; R3 = H, halo, (un)substituted alkyl, alkylthio, etc.; R4 = OH, formyloxy, halo, (un)substituted alkoxy, alkylthio, etc.; R5 = H, cyano, carbamoyl, thiocarbamoyl, halo, (un)substituted alkyl, alkoxy, etc.; R6 = H, (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, etc.; R7 = OH, formyloxy (un)substituted alkoxy, alkylcarbonyloxy, alkoxycarbonyloxy, etc.] and any of a very large number of known herbicides. Optionally the compns. include safening agents.

IT 2764-72-9D, Diquat, mixts. with aryl ketones 19666-30-9D, Oxadiazon, mixts. with aryl ketones 51218-49-6D, Pretilachlor, mixts. with aryl ketones 119126-15-7D, Flupoxam, mixts. with aryl ketones 139001-49-3D, Profoxydim, mixts. with aryl ketones 181274-15-7D, Propoxycarbazone sodium, mixts. with aryl ketones 211496-02-5D, Clefoxydim, mixts. with aryl ketones 335104-84-2D, mixts. with aryl ketones  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic herbicidal compns.)

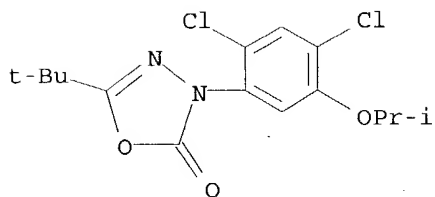
RN 2764-72-9 HCAPLUS

CN Dipyrido[1,2-a:2',1'-c]pyrazinedium, 6,7-dihydro- (8CI, 9CI) (CA INDEX NAME)

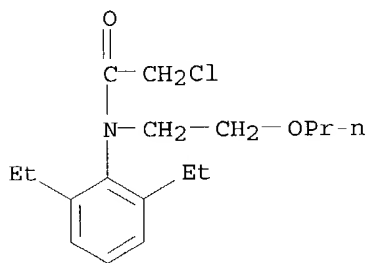


RN 19666-30-9 HCAPLUS

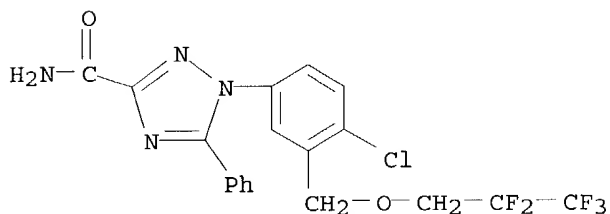
CN 1,3,4-Oxadiazol-2(3H)-one, 3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



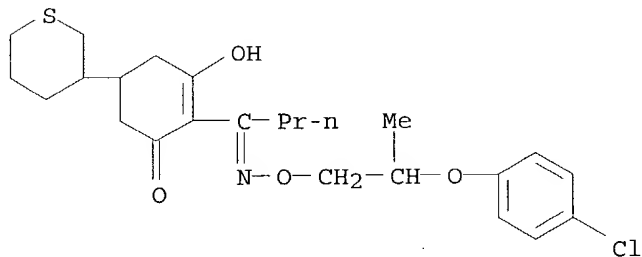
RN 51218-49-6 HCAPLUS  
CN Acetamide, 2-chloro-N-(2,6-diethylphenyl)-N-(2-propoxyethyl)- (9CI) (CA INDEX NAME)



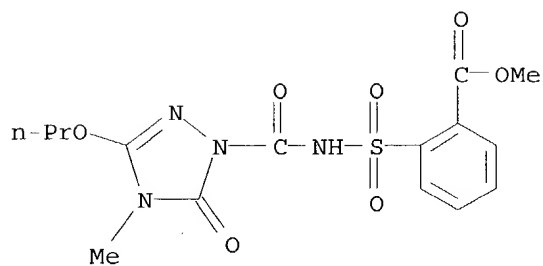
RN 119126-15-7 HCAPLUS  
CN 1H-1,2,4-Triazole-3-carboxamide, 1-[4-chloro-3-[(2,2,3,3,3-pentafluoropropoxy)methyl]phenyl]-5-phenyl- (9CI) (CA INDEX NAME)



RN 139001-49-3 HCAPLUS  
CN 2-Cyclohexen-1-one, 2-[1-[[2-(4-chlorophenoxy)propoxy]imino]butyl]-3-hydroxy-5-(tetrahydro-2H-thiopyran-3-yl)- (9CI) (CA INDEX NAME)



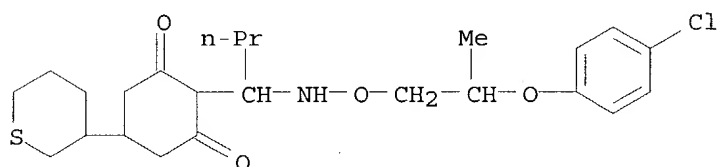
RN 181274-15-7 HCAPLUS  
CN Benzoic acid, 2-[[[(4,5-dihydro-4-methyl-5-oxo-3-propoxy-1H-1,2,4-triazol-1-yl)carbonyl]amino]sulfonyl]-, methyl ester, sodium salt (9CI) (CA INDEX NAME)



● Na

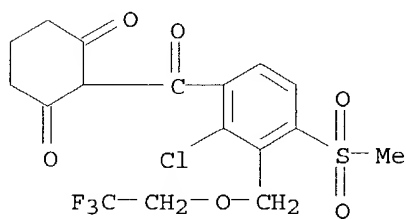
RN 211496-02-5 HCAPLUS

CN 1,3-Cyclohexanedione, 2-[1-[[2-(4-chlorophenoxy)propoxy]amino]butyl]-5-(tetrahydro-2H-thiopyran-3-yl)- (9CI) (CA INDEX NAME)



RN 335104-84-2 HCAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]- (9CI) (CA INDEX NAME)



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L1 STR

L3 69 SEA FILE=REGISTRY SSS FUL L1

L4 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

L10 93985 SEA FILE=REGISTRY ABB=ON PLU=ON ETHOXYL? OR ETHYLENE?

L11 280638 SEA FILE=REGISTRY ABB=ON PLU=ON PROPOX? OR PROPYLEN?

L18 1981678 SEA FILE=HCAPLUS ABB=ON PLU=ON L10 OR ?ETHOXYL? OR ?ETHYLENE?

L19 705030 SEA FILE=HCAPLUS ABB=ON PLU=ON L11 OR ?PROPOX? OR ?PROPYLEN?



L20 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND L18 AND L19  
L21 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 NOT L20

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=>

=> d ibib abs hitrn l21 1-4

L21 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2003:454031 HCAPLUS  
DOCUMENT NUMBER: 139:2385  
TITLE: Synergistic herbicidal compositions  
INVENTOR(S): Hacker, Erwin; Bieringer, Hermann; Kraehmer, Hansjoerg  
PATENT ASSIGNEE(S): Bayer CropScience GmbH, Germany  
SOURCE: PCT Int. Appl., 21 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003047340	A2	20030612	WO 2002-EP13235	20021125
WO 2003047340	A3	20040624		
W: AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, RU, SC, SG, SI, TJ, TM, TN, TT, UA, US, UZ, VC, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10160139	A1	20030618	DE 2001-10160139	20011207
US 2003158040	A1	20030821	US 2002-309501	20021204

PRIORITY APPLN. INFO.: DE 2001-10160139 A 20011207  
AB Synergistic herbicidal compns. comprise 2-[2-chloro-3-(2,2,2-trifluoroethoxymethyl)-4-methylsulfonylbenzoyl]cyclohexane-1,3-dione and ethoxysulfuron, flumetsulam, halosulfuron, imazamox, imazapyr, imazaquin, imazethapyr, metosulam, nicosulfuron, primisulfuron, prosulfuron, rimsulfuron, thifensulfuron-Me, triflurosulfuron, foramsulfuron, ametryne, atrazine, bromoxynil, cyanazine, diuron, hexazinone, metribuzin, pyridate, terbutylazine, 2,4-D, clopyralid, dicamba, diflufenzopyr, fluroxypyr, butylate, EPTC, fenoxaprop-P-Et, acetochlor, alachlor, dimethenamid, flufenacet, mefenacet, metolachlor, thenylchlor, S-metolachlor, fluthiacet-Me, carfentrazone-Et, hydroxy-1-methyl-3-isoxaflutole, mesotrione, sulcotrione, 4-(4-trifluoromethyl-2-methylsulfonylbenzoyl)-5-methylpyrazole, glyphosate, pendimethalin, trifluralin, asulam, triaziflam, diflufenican or glufosinate-ammonium. The compns. are active against monocotyl and/or dicotyl weeds.

IT 535953-05-0 535953-06-1 535953-07-2  
535953-08-3 535953-09-4 535953-10-7  
535953-11-8 535953-12-9 535953-13-0  
535953-14-1 535953-15-2 535953-16-3  
535953-17-4 535953-18-5 535953-19-6  
535953-20-9 535953-21-0 535953-22-1  
535953-23-2 535953-24-3 535953-25-4  
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 535953-44-7 535953-45-8 535953-46-9  
 535953-47-0 535953-48-1 535953-49-2  
 535953-50-5 535953-51-6 535953-52-7  
 535953-53-8 535953-54-9 535953-55-0  
 535953-56-1 535953-57-2

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic herbicidal composition)

IT 335104-84-2D, mixts. containing

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic herbicidal compns.)

L21 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:202385 HCAPLUS

DOCUMENT NUMBER: 138:216840

TITLE: Synergistic selective herbicidal compositions  
 comprising fentrazamide

INVENTOR(S): Fuersch, Helmut; Feucht, Dieter; Koenig, Thomas;  
 Dauck, Hartwig; Palis, Felicitos V.; Basilio, Ruperto  
 P.

PATENT ASSIGNEE(S): Bayer CropScience AG, Germany

SOURCE: PCT Int. Appl., 60 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003020035	A2	20030313	WO 2002-EP9238	20020819
WO 2003020035	A3	20030904		
W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
DE 10142336	A1	20030320	DE 2001-10142336	20010830
EP 1423010	A2	20040602	EP 2002-792557	20020819
R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK		
PRIORITY APPLN. INFO.:		DE 2001-10142336 A	20010830	
		WO 2002-EP9238	W	20020819

OTHER SOURCE(S): MARPAT 138:216840

AB The invention relates to novel herbicidal, synergistic active agent combinations, comprising fentrazamide and one of a very large number known herbicides, and, optionally, a known safener.

IT 501097-90-1

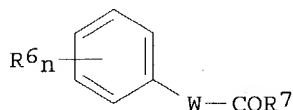
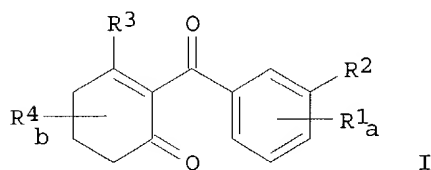
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic herbicidal composition)

L21 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:832541 HCAPLUS

DOCUMENT NUMBER: 137:306053  
 TITLE: Herbicidal compositions comprising benzoylcyclohexanediones and safeners  
 INVENTOR(S): Ziemer, Frank; Van Almsick, Andreas; Willms, Lothar; Auler, Thomas; Bieringer, Hermann; Hacker, Erwin; Rosinger, Christopher  
 PATENT ASSIGNEE(S): Bayer CropScience GmbH, Germany  
 SOURCE: PCT Int. Appl., 57 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002085120	A2	20021031	WO 2002-EP3902	20020409
WO 2002085120	A3	20030220		
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EC, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, RU, SG, SI, SK, TJ, TM, TN, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG DE 10119721 A1 20021031 DE 2001-10119721 20010421 EP 1383382 A2 20040128 EP 2002-764055 20020409 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR US 2003078167 A1 20030424 US 2002-126041 20020418 PRIORITY APPLN. INFO.: DE 2001-10119721 A 20010421 WO 2002-EP3902 W 20020409 OTHER SOURCE(S): MARPAT 137:306053 GI				



AB Herbicidal compns. comprise a benzoylcyclohexanedione derivative I [R1 = NO2, halo, NH2, CN, (halo)alkyl, (halo)alkenyl, etc.; R2 = haloalkoxyalkyl, alkoxyalkoxyalkoxyalkyl, cycloalkoxyalkyl, etc.; R3 = OH, CN, halo, alkylthio, etc.; R4 = alkyl; R5 = H, (halo)alkyl or alkoxyalkyl; a = 0, 1, 2 or 3; b = 0, 1 or 2] and a safener. The safeners are Q, R8CONR9R10,

etc. [W = substituted pyrazolyl, imidazolyl, oxazolyl, etc. ; R6 = H, halo, (halo)alkyl, alkoxy or NO<sub>2</sub>; R7 = OH, SH, substituted heterocyclyl, etc.; n = 1-5; R8 = (halo)alkyl, (halo)alkenyl or cycloalkyl; R9, R10 = H, (halo)alkyl, (halo)alkenyl, etc.].

IT 473278-62-5 473278-63-6 473278-64-7  
473278-65-8 473278-66-9 473278-69-2  
473278-71-6 473278-79-4 473278-82-9  
473278-83-0 473278-85-2

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(safened herbicidal composition)

L21 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:300437 HCAPLUS

DOCUMENT NUMBER: 134:306619

TITLE: Synergistic herbicides containing  
hydroxyphenylpyruvate dioxygenase inhibitors

INVENTOR(S): Bieringer, Hermann; Van Almsick, Andreas; Hacker,  
Erwin; Willms, Lothar

PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001028341	A2	20010426	WO 2000-EP10369	20001020
WO 2001028341	A3	20020502		
W:		AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
DE 19950943	A1	20010517	DE 1999-19950943	19991022
BR 2000014915	A	20020611	BR 2000-14915	20001020
EP 1233673	A2	20020828	EP 2000-972832	20001020
R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL		
JP 2003511475	T2	20030325	JP 2001-530945	20001020
NZ 518463	A	20040625	NZ 2000-518463	20001020
BG 106600	A	20021229	BG 2002-106600	20020410
ZA 2002002934	A	20030415	ZA 2002-2934	20020415

PRIORITY APPLN. INFO.: DE 1999-19950943 A 19991022  
WO 2000-EP10369 W 20001020

OTHER SOURCE(S): MARPAT 134:306619

AB The invention relates to herbicides that contain hydroxyphenylpyruvate dioxygenase inhibitor(s) (Markush given) and a known herbicide: (a) selectively effective in cereals against monocotyledonous and/or dicotyledonous weeds; (b) selectively effective in maize against monocotyledonous and/or dicotyledonous weeds; (c) selectively effective in rice against monocotyledonous and/or dicotyledonous weeds; and (d) nonselectively effective on noncultivated soil and/or selectively effective in transgenic cultures against monocotyledonous and/or dicotyledonous weeds.

IT 335104-85-3

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic herbicide)

=> fil reg

FILE 'REGISTRY' ENTERED AT 17:00:41 ON 30 JUL 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 JUL 2004 HIGHEST RN 718597-29-6  
DICTIONARY FILE UPDATES: 28 JUL 2004 HIGHEST RN 718597-29-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>  
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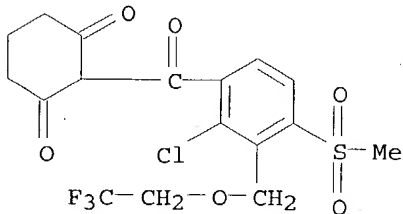
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L3 ANSWER 1 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-57-2 REGISTRY  
CN Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C5 H12 N O4 P . H3 N  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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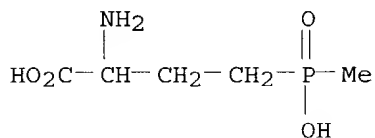
CRN 335104-84-2

CMF C17 H16 Cl F3 O6 S



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CRN 77182-82-2 (51276-47-2)  
CMF C5 H12 N O4 P . H3 N



● NH<sub>3</sub>

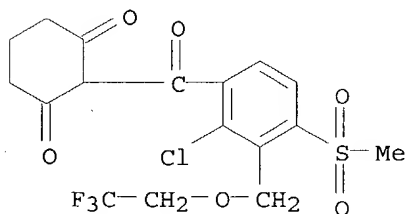
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 2 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-56-1 REGISTRY  
CN 3-Pyridinecarboxamide, N-(2,4-difluorophenyl)-2-[3-(trifluoromethyl)phenoxy]-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C19 H11 F5 N2 O2 . C17 H16 Cl F3 O6 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

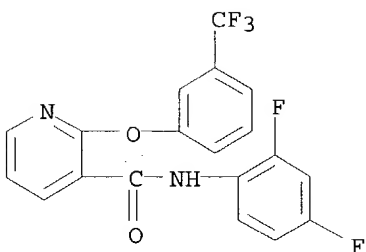
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CMF C17 H16 Cl F3 O6 S



CM 2

CRN 83164-33-4  
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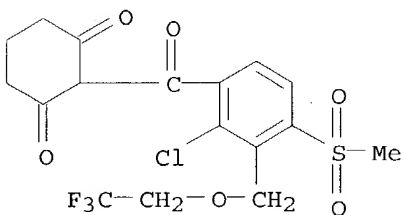
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 3 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-55-0 REGISTRY  
CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-, mixt. with N-[2-(3,5-dimethylphenoxy)-1-methylethyl]-6-(1-fluoro-1-methylethyl)-1,3,5-triazine-2,4-diamine (9CI)  
(CA INDEX NAME)  
MF C17 H24 F N5 O . C17 H16 Cl F3 O6 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

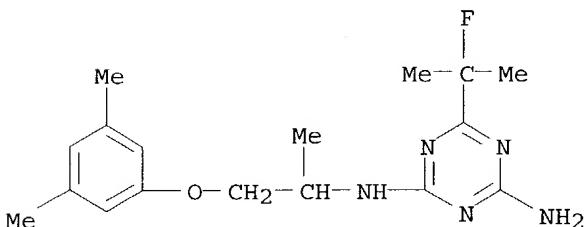
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CRN 131475-57-5  
CMF C17 H24 F N5 O



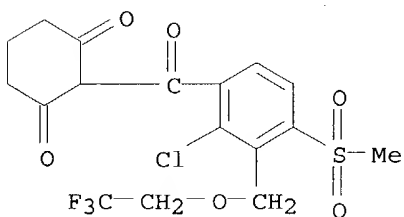
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 4 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-54-9 REGISTRY  
CN Carbamic acid, [(4-aminophenyl)sulfonyl]-, methyl ester, mixt. with  
2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-  
1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C8 H10 N2 O4 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

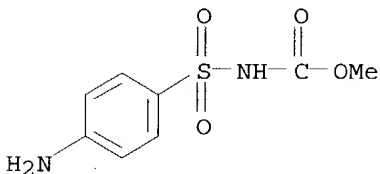
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 3337-71-1  
CMF C8 H10 N2 O4 S



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

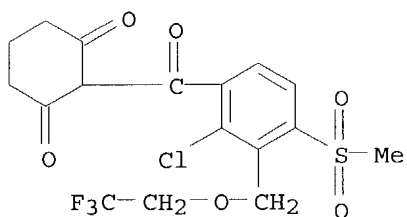
L3 ANSWER 5 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-53-8 REGISTRY  
CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-, mixt. with 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)benzenamine (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C13 H16 F3 N3 O4  
CI MXS



SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

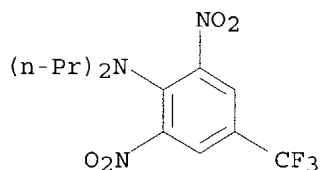
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CRN 1582-09-8  
 CMF C13 H16 F3 N3 O4



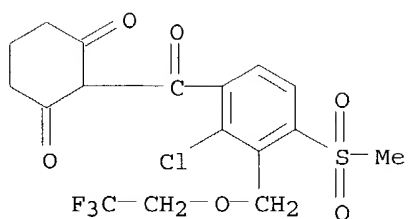
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 6 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-52-7 REGISTRY  
 CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-, mixt. with N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C13 H19 N3 O4  
 CI MXS  
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 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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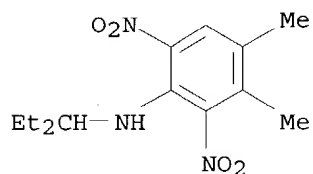
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 CMF C17 H16 Cl F3 O6 S



CM 2

CRN 40487-42-1

CMF C13 H19 N3 O4



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 7 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-51-6 REGISTRY

CN Glycine, N-(phosphonomethyl)-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C17 H16 Cl F3 O6 S . C3 H8 N O5 P

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

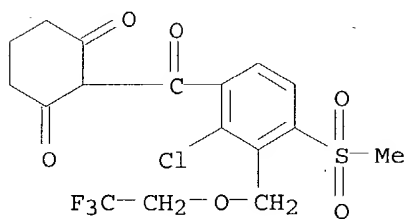
DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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CMF C17 H16 Cl F3 O6 S



CM 2

CRN 1071-83-6  
CMF C3 H8 N O5 P



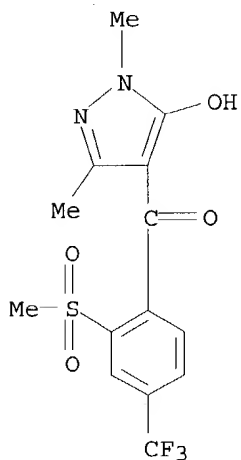
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 8 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-50-5 REGISTRY  
CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-, mixt. with (5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl) [2-(methylsulfonyl)-4-(trifluoromethyl)phenyl]methanone (9CI)  
(CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C14 H13 F3 N2 O4 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

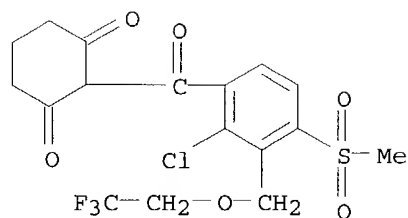
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



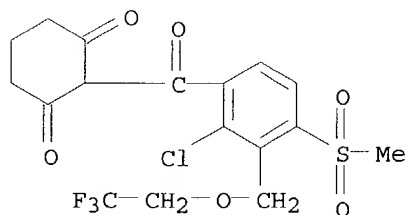
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 9 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-49-2 REGISTRY  
CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)benzoyl]-, mixt. with  
2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-  
1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C14 H13 Cl O5 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

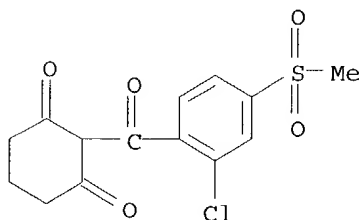
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CMF C17 H16 Cl F3 O6 S



CM 2

CRN 99105-77-8  
CMF C14 H13 Cl O5 S



1 REFERENCES IN FILE CA (1907 TO DATE)

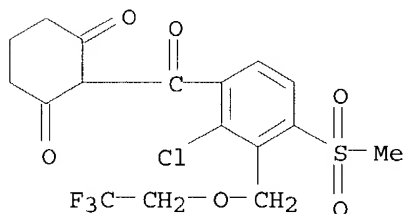
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 10 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-48-1 REGISTRY  
 CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-, mixt. with 2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C14 H13 N O7 S  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
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 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

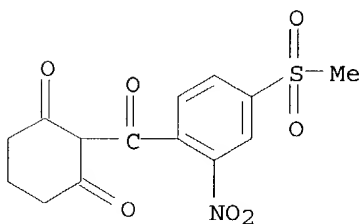
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CRN 335104-84-2  
 CMF C17 H16 Cl F3 O6 S



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CRN 104206-82-8  
 CMF C14 H13 N O7 S



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

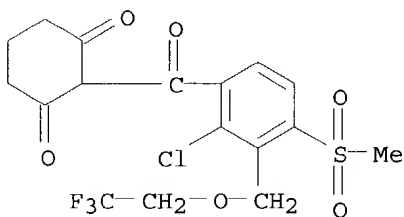
REFERENCE 1: 139:2385

L3 ANSWER 11 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-47-0 REGISTRY  
 CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-, mixt. with (5-cyclopropyl-4-isoxazolyl) [2-(methylsulfonyl)-4-(trifluoromethyl)phenyl]methanone (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C15 H12 F3 N O4 S  
 CI MXS

SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA Caplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

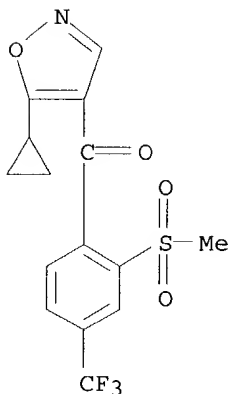
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CM 2

CRN 141112-29-0  
 CMF C15 H12 F3 N O4 S



1 REFERENCES IN FILE CA (1907 TO DATE)  
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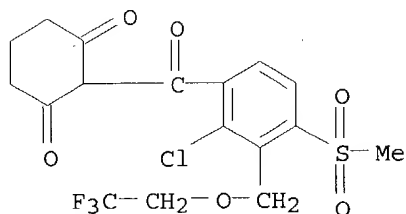
REFERENCE 1: 139:2385

L3 ANSWER 12 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-46-9 REGISTRY  
 CN Benzenepropanoic acid,  $\alpha$ ,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluoro-, ethyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C15 H14 Cl2 F3 N3 O3  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
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 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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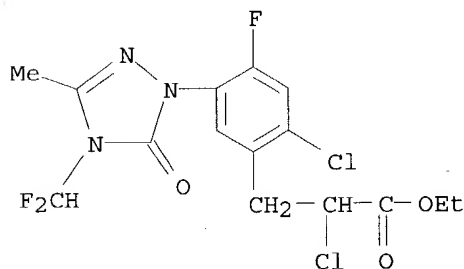
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CM 2

CRN 128639-02-1

CMF C15 H14 Cl2 F3 N3 O3



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

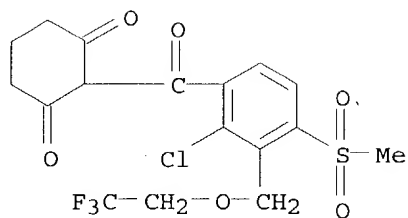
REFERENCE 1: 139:2385

L3 ANSWER 13 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-45-8 REGISTRY  
CN Acetic acid, [[2-chloro-4-fluoro-5-[(tetrahydro-3-oxo-1H,3H-[1,3,4]thiadiazolo[3,4-a]pyridazin-1-ylidene)amino]phenyl]thio]-, methyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C15 H15 Cl F N3 O3 S2  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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CRN 335104-84-2

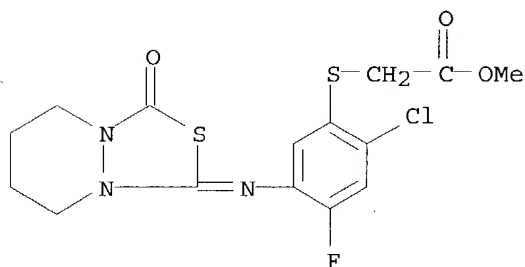
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 117337-19-6

CMF C15 H15 Cl F N3 O3 S2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 14 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-44-7 REGISTRY

CN Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-[(1S)-2-methoxy-1-methylethyl]-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C17 H16 Cl F3 O6 S . C15 H22 Cl N O2

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA Caplus document type: Patent

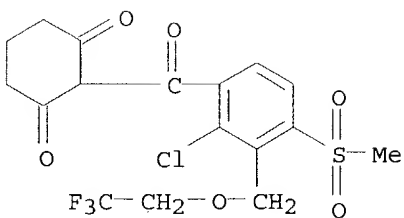
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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CRN 335104-84-2

CMF C17 H16 Cl F3 O6 S



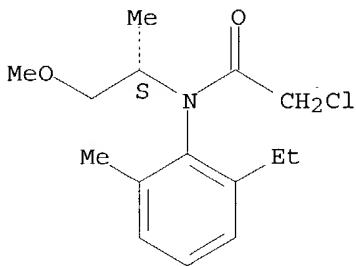


CM 2

CRN 87392-12-9

CMF C15 H22 Cl N O2

Absolute stereochemistry. Rotation (-).



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 15 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-43-6 REGISTRY

CN Acetamide, 2-chloro-N-(2,6-dimethylphenyl)-N-[(3-methoxy-2-thienyl)methyl]-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C17 H16 Cl F3 O6 S . C16 H18 Cl N O2 S

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

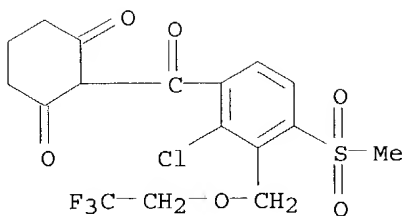
DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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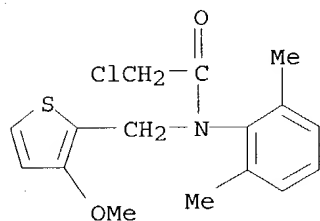
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 96491-05-3

CMF C16 H18 Cl N O2 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 16 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-42-5 REGISTRY

CN Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C17 H16 Cl F3 O6 S . C15 H22 Cl N O2

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

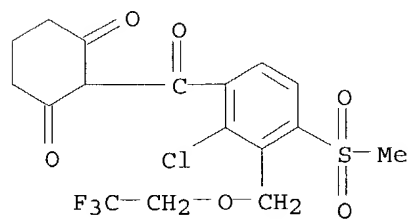
DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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CRN 335104-84-2

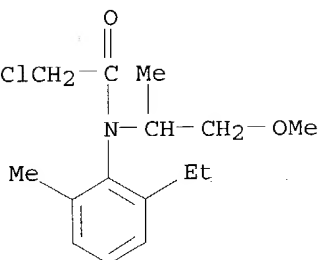
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 51218-45-2

CMF C15 H22 Cl N O2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 17 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-41-4 REGISTRY

CN Acetamide, 2-(2-benzothiazolyloxy)-N-methyl-N-phenyl-, mixt. with  
2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-  
1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C17 H16 Cl F3 O6 S . C16 H14 N2 O2 S

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

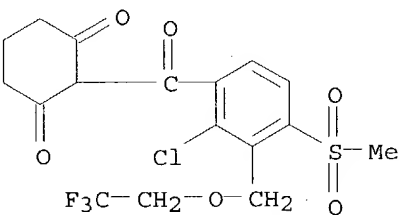
DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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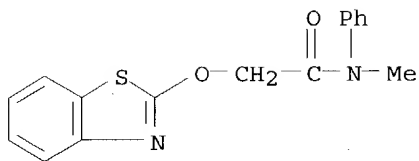
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CM 2

CRN 73250-68-7

CMF C16 H14 N2 O2 S



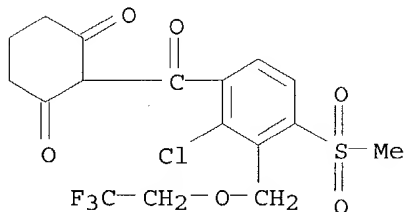
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 18 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-40-3 REGISTRY  
CN Acetamide, N-(4-fluorophenyl)-N-(1-methylethyl)-2-[[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]oxy]-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C14 H13 F4 N3 O2 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

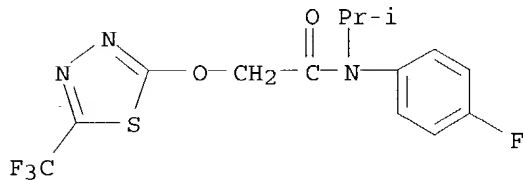
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CMF C17 H16 Cl F3 O6 S.



CM 2

CRN 142459-58-3  
CMF C14 H13 F4 N3 O2 S



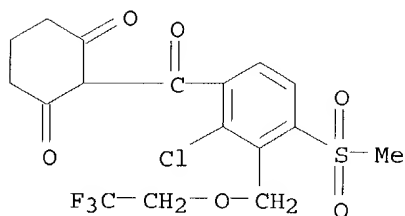
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 19 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-39-0 REGISTRY  
 CN Acetamide, 2-chloro-N-(2,4-dimethyl-3-thienyl)-N-(2-methoxy-1-methylethyl)-  
 , mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX  
 NAME)  
 MF C17 H16 Cl F3 O6 S . C12 H18 Cl N O2 S  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAPLUS document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

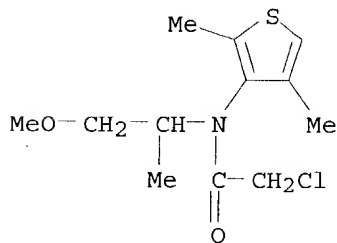
CM 1

CRN 335104-84-2  
 CMF C17 H16 Cl F3 O6 S



CM 2

CRN 87674-68-8  
 CMF C12 H18 Cl N O2 S



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

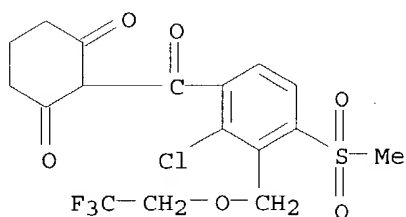
REFERENCE 1: 139:2385

L3 ANSWER 20 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-38-9 REGISTRY  
 CN Acetamide, 2-chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)-, mixt. with  
 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-  
 1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C14 H20 Cl N O2  
 CI MXS  
 SR CA

LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

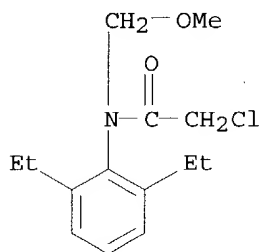
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CRN 335104-84-2  
 CMF C17 H16 Cl F3 O6 S



CM 2

CRN 15972-60-8  
 CMF C14 H20 Cl N O2



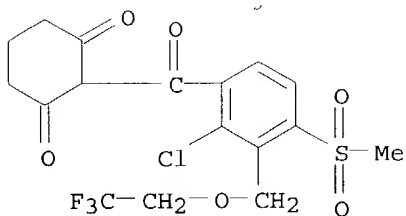
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 21 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-37-8 REGISTRY  
 CN Acetamide, 2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)-, mixt.  
 with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX  
 NAME)  
 MF C17 H16 Cl F3 O6 S . C14 H20 Cl N O2  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

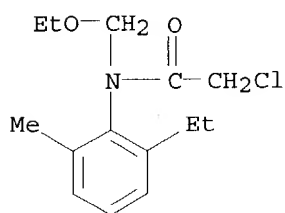
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 CMF C17 H16 Cl F3 O6 S



CM 2

CRN 34256-82-1

CMF C14 H20 Cl N O2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 22 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-36-7 REGISTRY

CN Propanoic acid, 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-, ethyl ester, (2R)-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C18 H16 Cl N O5 . C17 H16 Cl F3 O6 S

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

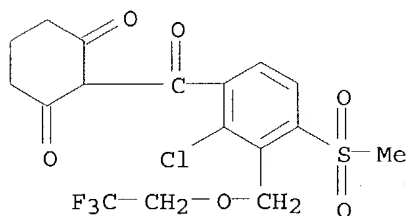
DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 335104-84-2

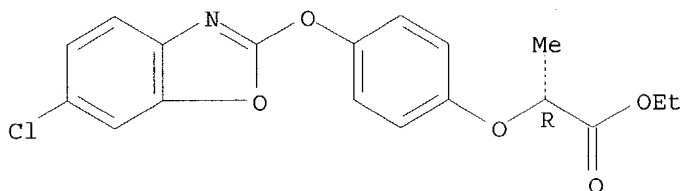
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 71283-80-2  
CMF C18 H16 Cl N O5

Absolute stereochemistry.



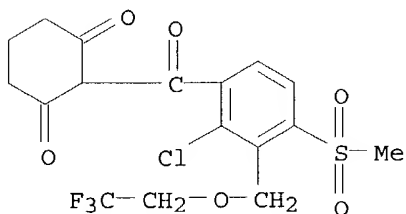
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 23 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-35-6 REGISTRY  
CN Carbamothioic acid, dipropyl-, S-ethyl ester, mixt. with  
2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-  
1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C9 H19 N O S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

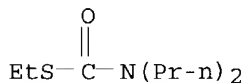
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CMF C17 H16 Cl F3 O6 S



CM 2

CRN 759-94-4  
CMF C9 H19 N O S





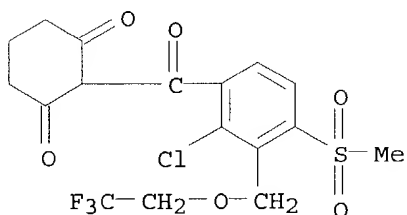
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 24 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-34-5 REGISTRY  
CN Carbamothioic acid, bis(2-methylpropyl)-, S-ethyl ester, mixt. with  
2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-  
1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C11 H23 N O S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

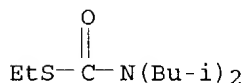
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 2008-41-5  
CMF C11 H23 N O S



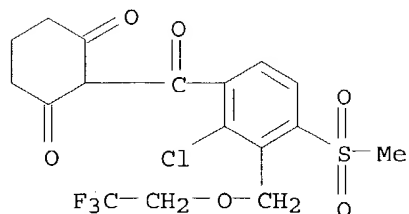
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 25 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-33-4 REGISTRY  
CN Acetic acid, [(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]-, mixt. with  
2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-  
1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C7 H5 Cl2 F N2 O3  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

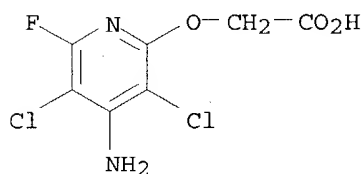
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 69377-81-7  
CMF C7 H5 Cl2 F N2 O3



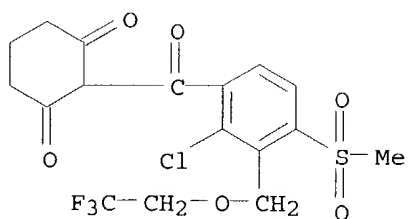
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 26 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-32-3 REGISTRY  
CN 3-Pyridinecarboxylic acid, 2-[1-[[[(3,5-difluorophenyl)amino]carbonyl]hydr  
azonolethyl]-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-  
trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX  
NAME)  
MF C17 H16 Cl F3 O6 S . C15 H12 F2 N4 O3  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

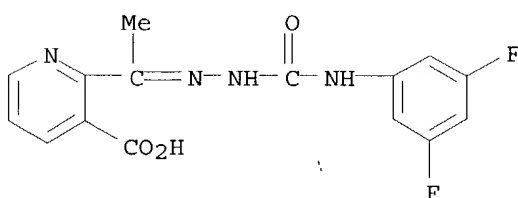
CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 109293-97-2

CMF C15 H12 F2 N4 O3



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 27 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-31-2 REGISTRY

CN Benzoic acid, 3,6-dichloro-2-methoxy-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C17 H16 Cl F3 O6 S . C8 H6 Cl2 O3

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

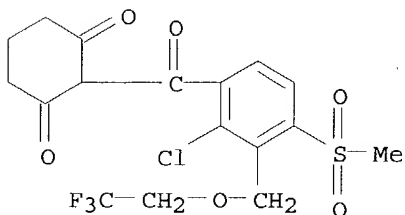
DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

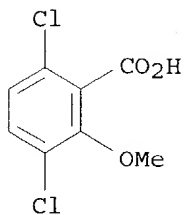
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CMF C17 H16 Cl F3 O6 S



CM 2

CRN 1918-00-9  
CMF C8 H6 Cl2 O3



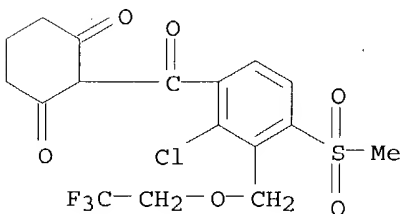
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 28 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-30-1 REGISTRY  
CN 2-Pyridinecarboxylic acid, 3,6-dichloro-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C6 H3 Cl2 N O2  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

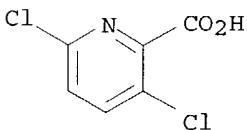
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 1702-17-6  
CMF C6 H3 Cl2 N O2



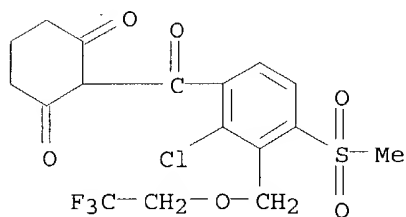
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 29 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-29-8 REGISTRY  
CN Acetic acid, (2,4-dichlorophenoxy)-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C8 H6 Cl2 O3  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

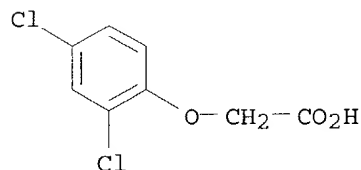
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 94-75-7  
CMF C8 H6 Cl2 O3



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 30 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-28-7 REGISTRY  
CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-, mixt. with 6-chloro-N-(1,1-dimethylethyl)-N'-ethyl-1,3,5-triazine-2,4-diamine (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C9 H16 Cl N5  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

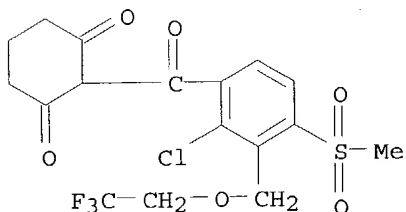
DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 335104-84-2

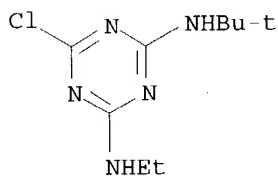
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 5915-41-3

CMF C9 H16 Cl N5



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 31 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-27-6 REGISTRY

CN Carbonothioic acid, O-(6-chloro-3-phenyl-4-pyridazinyl) S-octyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C19 H23 Cl N2 O2 S . C17 H16 Cl F3 O6 S

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

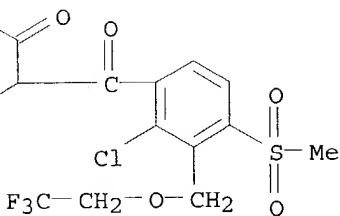
DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 335104-84-2

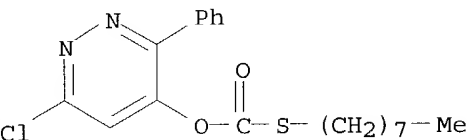
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 55512-33-9

CMF C19 H23 Cl N2 O2 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 32 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-26-5 REGISTRY

CN 1,2,4-Triazin-5(4H)-one, 4-amino-6-(1,1-dimethylethyl)-3-(methylthio)-,  
mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-  
trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX  
NAME)

MF C17 H16 Cl F3 O6 S . C8 H14 N4 O S

CI      MXS

SR      CA

LC STN Files: CA, CAPLUS, USPATFULL

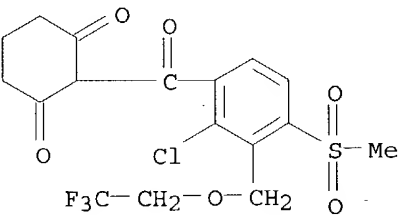
DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

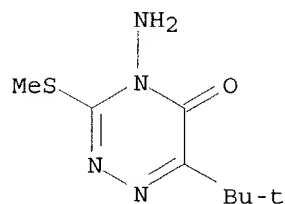
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CMF C17 H16 Cl F3 O6 S



CM 2

CRN 21087-64-9  
CMF C8 H14 N4 O S



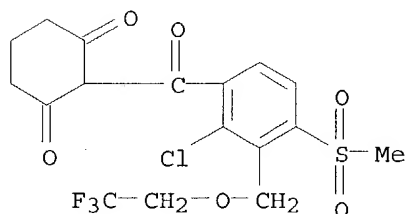
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 33 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-25-4 REGISTRY  
CN 1,3,5-Triazine-2,4(1H,3H)-dione, 3-cyclohexyl-6-(dimethylamino)-1-methyl-,  
mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX  
NAME)  
MF C17 H16 Cl F3 O6 S . C12 H20 N4 O2  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

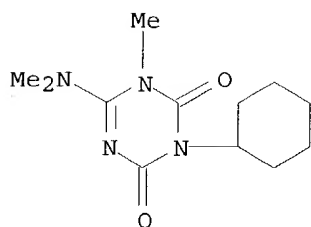
CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 51235-04-2  
CMF C12 H20 N4 O2





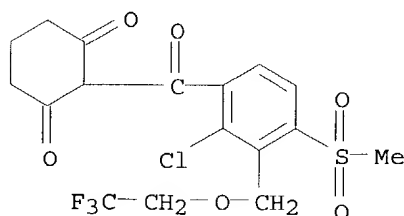
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 34 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-24-3 REGISTRY  
CN Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl-, mixt. with  
2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-  
1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C9 H10 Cl2 N2 O  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

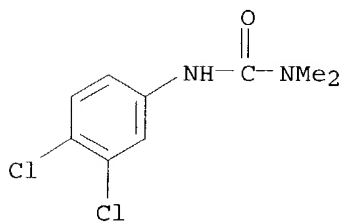
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 330-54-1  
CMF C9 H10 Cl2 N2 O



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

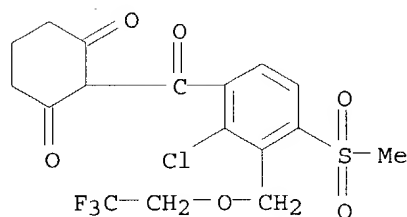
REFERENCE 1: 139:2385

L3 ANSWER 35 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-23-2 REGISTRY  
 CN Propanenitrile, 2-[[4-chloro-6-(ethylamino)-1,3,5-triazin-2-yl]amino]-2-methyl-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C9 H13 Cl N6  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA Caplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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CRN 335104-84-2

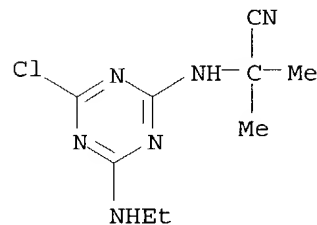
CMF C17 H16 Cl F3 O6 S



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CRN 21725-46-2

CMF C9 H13 Cl N6



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

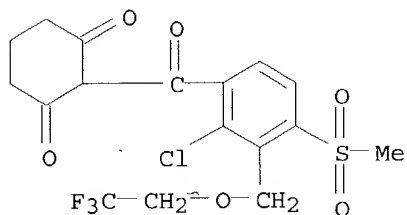
REFERENCE 1: 139:2385

L3 ANSWER 36 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-22-1 REGISTRY  
 CN Benzonitrile, 3,5-dibromo-4-hydroxy-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C7 H3 Br2 N O  
 CI MXS

SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA Caplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

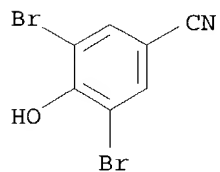
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CRN 1689-84-5  
 CMF C7 H3 Br2 N O



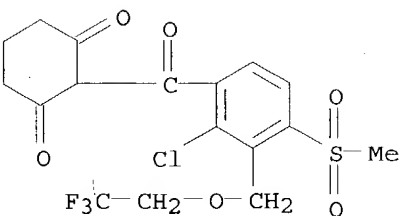
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 37 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-21-0 REGISTRY  
 CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-, mixt. with 6-chloro-N-ethyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C8 H14 Cl N5  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA Caplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

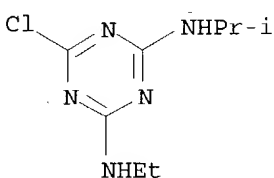
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CRN 1912-24-9

CMF C8 H14 Cl N5



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 38 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-20-9 REGISTRY

CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-, mixt. with N-ethyl-N'-(1-methylethyl)-6-(methylthio)-1,3,5-triazine-2,4-diamine (9CI) (CA INDEX NAME)

MF C17 H16 Cl F3 O6 S . C9 H17 N5 S

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

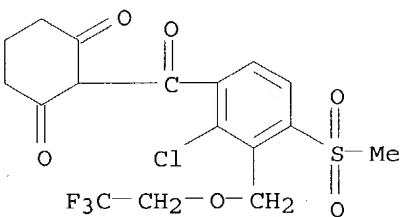
DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

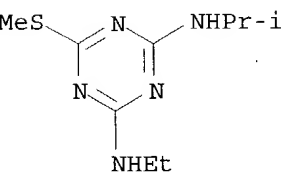
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CMF C17 H16 Cl F3 O6 S



CM 2

CRN 834-12-8  
CMF C9 H17 N5 S



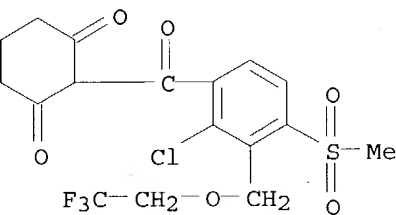
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 39 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-19-6 REGISTRY  
CN Benzamide, 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-(formylamino)-N,N-dimethyl-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H20 N6 O7 S . C17 H16 Cl F3 O6 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

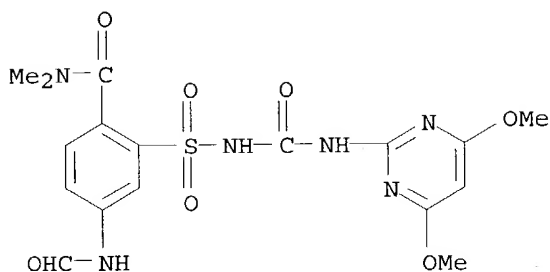
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 173159-57-4  
CMF C17 H20 N6 O7 S



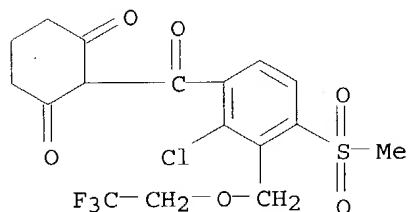
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 40 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-18-5 REGISTRY  
CN Benzoic acid, 2-[[[4-(dimethylamino)-6-(2,2,2-trifluoroethoxy)-1,3,5-triazin-2-yl]amino]carbonyl]amino]sulfonyl]-3-methyl-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C16 H17 F3 N6 O6 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

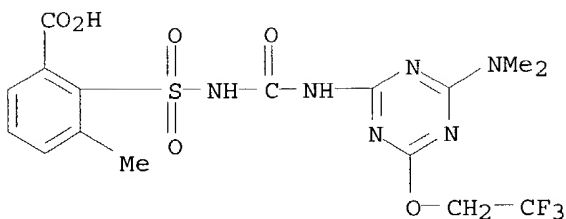
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 135990-29-3  
CMF C16 H17 F3 N6 O6 S



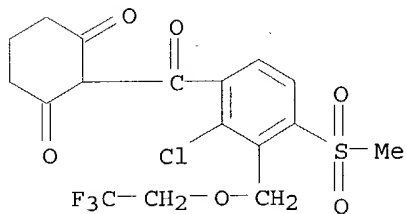
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 41 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-17-4 REGISTRY  
CN 2-Thiophenecarboxylic acid, 3-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-, methyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C12 H13 N5 O6 S2  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

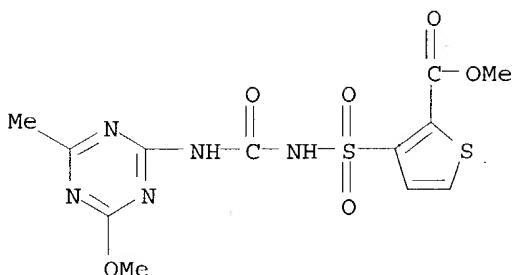
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 79277-27-3  
CMF C12 H13 N5 O6 S2



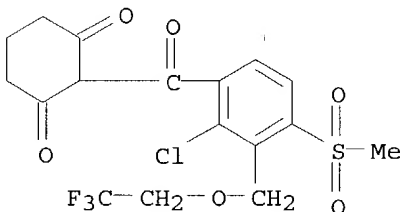
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 42 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-16-3 REGISTRY  
CN 2-Pyridinesulfonamide, N-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(ethylsulfonyl)-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C14 H17 N5 O7 S2  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

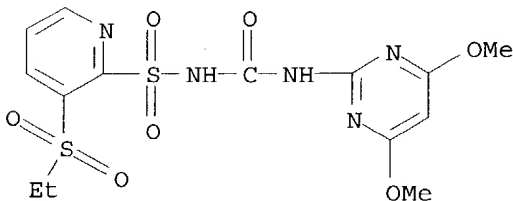
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 122931-48-0  
CMF C14 H17 N5 O7 S2





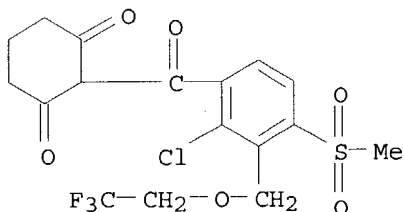
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 43 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-15-2 REGISTRY  
CN Benzenesulfonamide, N-[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]amino]carbonyl]-2-(3,3,3-trifluoropropyl)-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C15 H16 F3 N5 O4 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

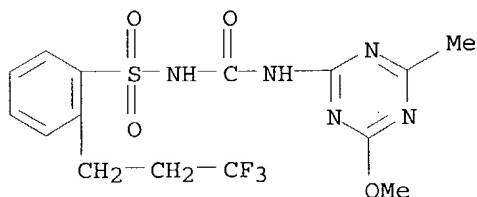
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 94125-34-5  
CMF C15 H16 F3 N5 O4 S



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

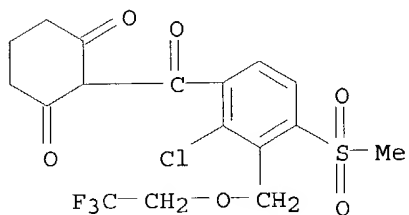
REFERENCE 1: 139:2385

L3 ANSWER 44 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-14-1 REGISTRY  
CN Benzoic acid, 2-[[[[[4,6-bis(difluoromethoxy)-2-pyrimidinyl]amino]carbonyl]amino]sulfonyl]-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C17 H16 Cl F3 O6 S . C14 H10 F4 N4 O7 S  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

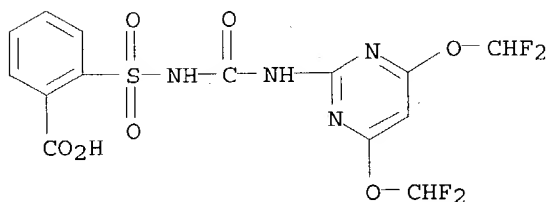
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 CMF C14 H10 F4 N4 O7 S



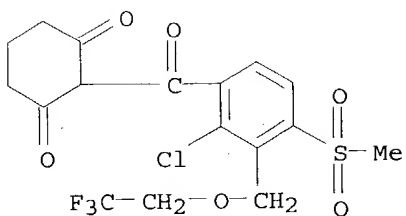
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 45 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-13-0 REGISTRY  
 CN 3-Pyridinecarboxamide, 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-N,N-dimethyl-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C15 H18 N6 O6 S  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

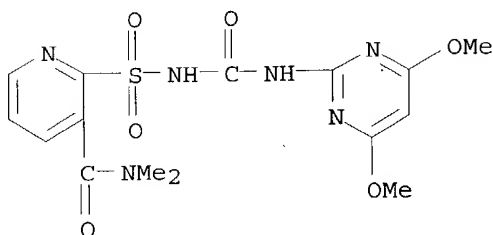
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 CMF C17 H16 Cl F3 O6 S



CM 2

CRN 111991-09-4

CMF C15 H18 N6 O6 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 46 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-12-9 REGISTRY

CN [1,2,4]Triazolo[1,5-a]pyrimidine-2-sulfonamide, N-(2,6-dichloro-3-methylphenyl)-5,7-dimethoxy-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C17 H16 Cl F3 O6 S . C14 H13 Cl2 N5 O4 S

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

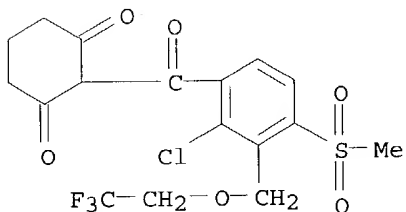
DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 335104-84-2

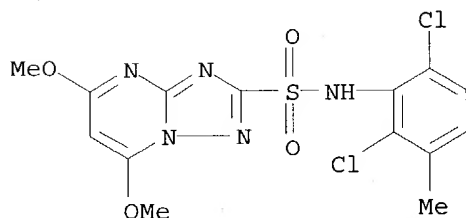
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 139528-85-1

CMF C14 H13 Cl2 N5 O4 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 47 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-11-8 REGISTRY

CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C17 H16 Cl F3 O6 S . C15 H19 N3 O3

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

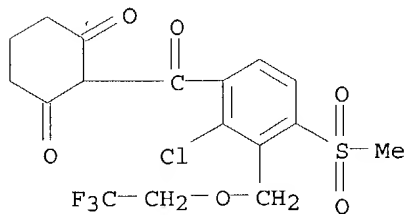
DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 335104-84-2

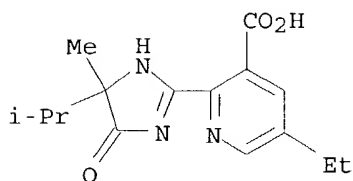
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 81335-77-5

CMF C15 H19 N3 O3



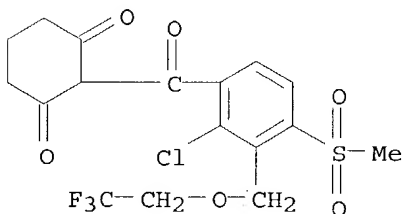
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 48 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-10-7 REGISTRY  
CN 3-Quinolinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H17 N3 O3 . C17 H16 Cl F3 O6 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

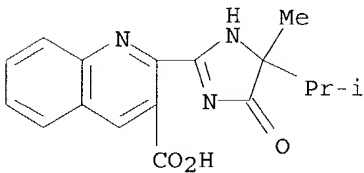
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CMF C17 H16 Cl F3 O6 S



CM 2

CRN 81335-37-7  
CMF C17 H17 N3 O3



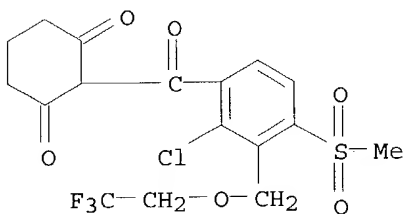
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 49 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-09-4 REGISTRY  
 CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C13 H15 N3 O3  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA Cplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

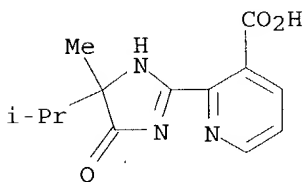
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CRN 335104-84-2  
 CMF C17 H16 Cl F3 O6 S



CM 2

CRN 81334-34-1  
 CMF C13 H15 N3 O3



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 50 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 535953-08-3 REGISTRY  
 CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(methoxymethyl)-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C15 H19 N3 O4  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

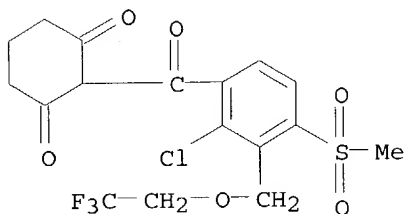
DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 335104-84-2

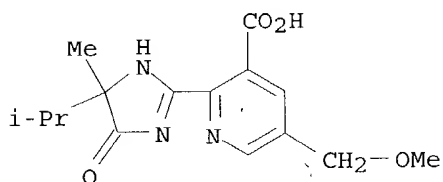
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 114311-32-9

CMF C15 H19 N3 O4



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 51 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 535953-07-2 REGISTRY

CN 1H-Pyrazole-4-carboxylic acid, 3-chloro-5-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-1-methyl-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C17 H16 Cl F3 O6 S . C12 H13 Cl N6 O7 S

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

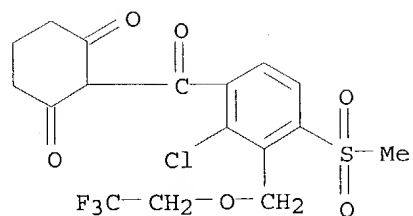
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RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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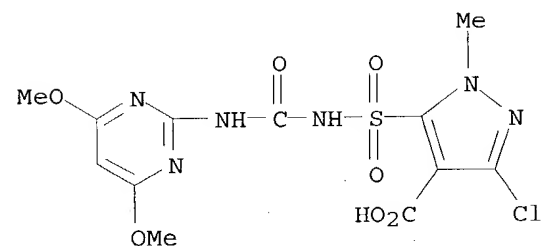
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CMF C17 H16 Cl F3 O6 S



CM 2

CRN 135397-30-7  
CMF C12 H13 Cl N6 O7 S



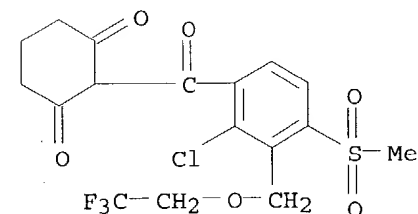
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 52 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 535953-06-1 REGISTRY  
CN [1,2,4]Triazolo[1,5-a]pyrimidine-2-sulfonamide, N-(2,6-difluorophenyl)-5-methyl-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C12 H9 F2 N5 O2 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S

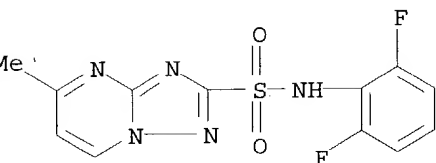




CM 2

CRN 98967-40-9

CMF C12 H9 F2 N5 O2 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

CL3 ANSWER 53 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

CRN 535953-05-0 REGISTRY

CN Sulfamic acid, [[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-, 2-ethoxyphenyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

CMF C17 H16 Cl F3 O6 S . C15 H18 N4 O7 S

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

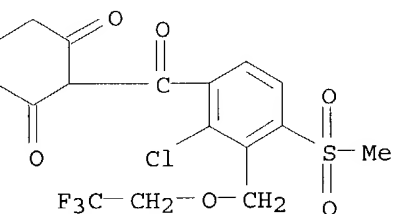
DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 335104-84-2

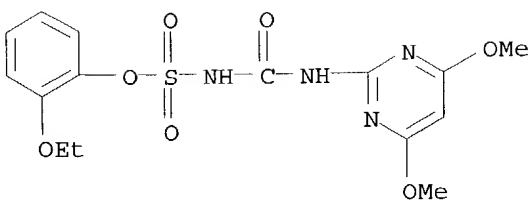
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 126801-58-9

CMF C15 H18 N4 O7 S



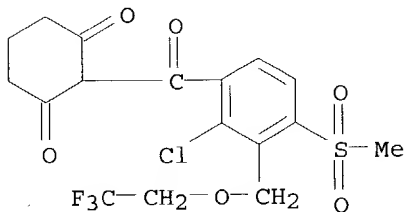
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:2385

L3 ANSWER 54 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 501097-90-1 REGISTRY  
CN 1H-Tetrazole-1-carboxamide, 4-(2-chlorophenyl)-N-cyclohexyl-N-ethyl-4,5-dihydro-5-oxo-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C16 H20 Cl N5 O2  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

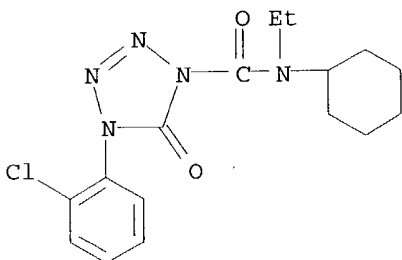
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 158237-07-1  
CMF C16 H20 Cl N5 O2



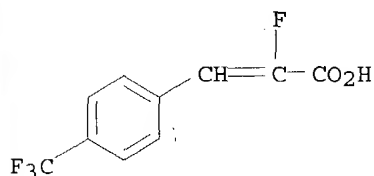
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:216840

L3 ANSWER 55 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 473278-85-2 REGISTRY  
CN 2-Propenoic acid, 2-fluoro-3-[4-(trifluoromethyl)phenyl]-, mixt. with  
2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-  
1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C10 H6 F4 O2  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

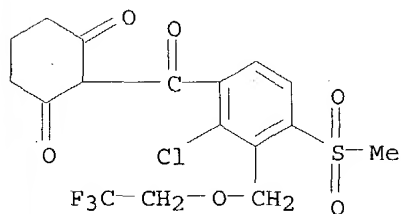
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CRN 473278-84-1  
CMF C10 H6 F4 O2



CM 2

CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

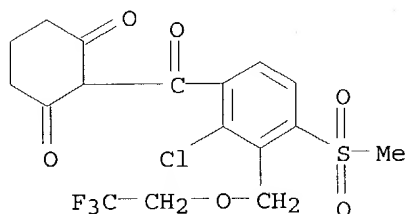
REFERENCE 1: 137:306053

L3 ANSWER 56 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 473278-83-0 REGISTRY  
CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
MF C17 H16 Cl F3 O6 S . C16 H18 Cl2 N2 O4

CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

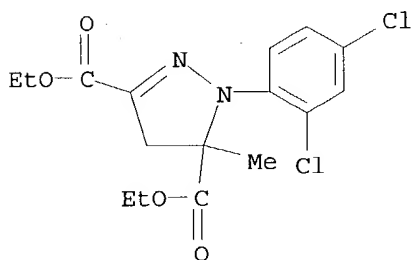
CM 1

CRN 335104-84-2  
 CMF C17 H16 Cl F3 O6 S



CM 2

CRN 135590-91-9  
 CMF C16 H18 Cl2 N2 O4



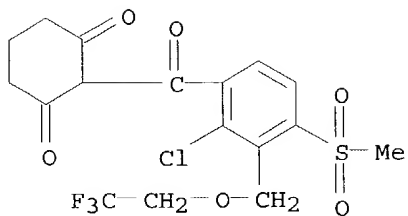
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:306053

L3 ANSWER 57 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 473278-82-9 REGISTRY  
 CN Acetic acid, [(5-chloro-8-quinolinyl)oxy]-, 1-methylhexyl ester, mixt.  
 with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
 MF C18 H22 Cl N O3 . C17 H16 Cl F3 O6 S  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

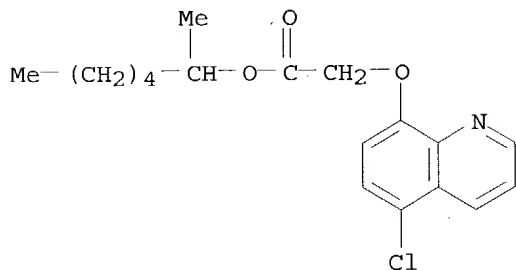
CRN 335104-84-2  
 CMF C17 H16 Cl F3 O6 S



CM 2

CRN 99607-70-2

CMF C18 H22 Cl N O3



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:306053

L3 ANSWER 58 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 473278-79-4 REGISTRY

CN Oxazolidine, 3-(dichloroacetyl)-5-(2-furanyl)-2,2-dimethyl-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C17 H16 Cl F3 O6 S . C11 H13 Cl2 N O3

CI MXS

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

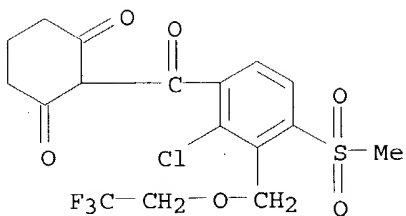
DT.CA CAPLUS document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 335104-84-2

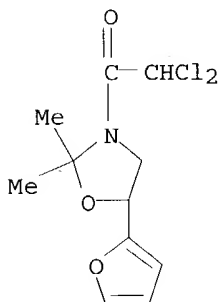
CMF C17 H16 Cl F3 O6 S



CM 2

CRN 121776-33-8

CMF C11 H13 Cl2 N O3



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

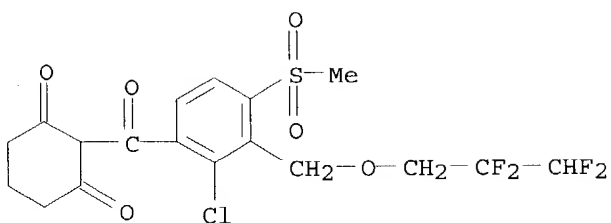
REFERENCE 1: 137:306053

L3 ANSWER 59 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 473278-71-6 REGISTRY  
CN 3-Isoxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester, mixt.  
with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,3,3-tetrafluoropropoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX  
NAME)  
MF C18 H17 Cl F4 O6 S . C18 H17 N O3  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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CRN 473278-70-5

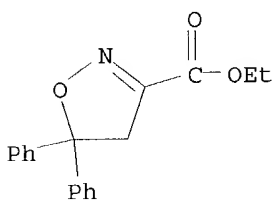
CMF C18 H17 Cl F4 O6 S



CM 2

CRN 163520-33-0

CMF C18 H17 N O3



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:306053

L3 ANSWER 60 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 473278-70-5 REGISTRY

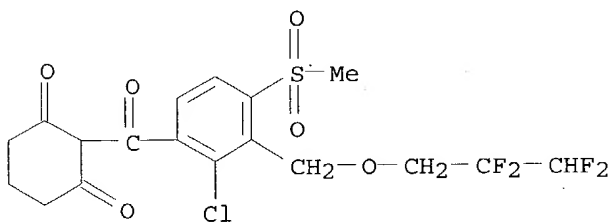
CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,3,3-tetrafluoropropoxy)methyl]benzoyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C18 H17 Cl F4 O6 S

CI COM

SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 ANSWER 61 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 473278-69-2 REGISTRY

CN 3-Isoxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester, mixt. with 2-[2-chloro-3-[(2,2-difluoroethoxy)methyl]-4-(methylsulfonyl)benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

MF C18 H17 N O3 . C17 H17 Cl F2 O6 S

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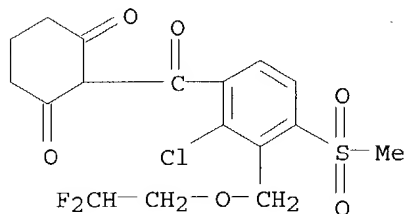
CI      MXS
SR      CA
LC      STN Files:  CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA   Caplus document type:  Patent
RL.P    Roles from patents:  BIOL (Biological study); USES (Uses)

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CRN 473278-68-1

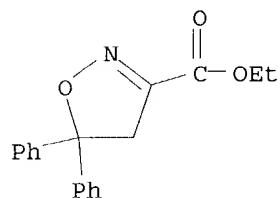
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CM 2

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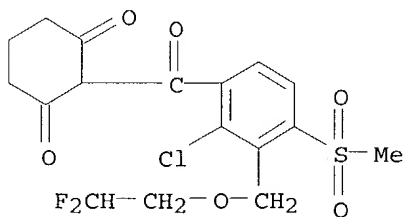
CMF C18 H17 N O3



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:306053

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L3 ANSWER 62 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN
RN 473278-68-1 REGISTRY
CN 1,3-Cyclohexanedione, 2-[2-chloro-3-[(2,2-difluoroethoxy)methyl]-4-
(methylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H17 Cl F2 O6 S
CI COM
SR CA
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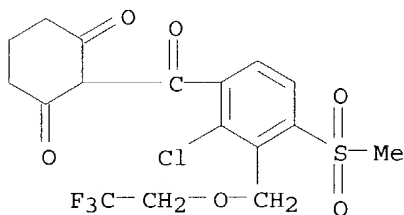


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 ANSWER 63 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 473278-66-9 REGISTRY  
 CN Benzamide, 2-methoxy-N-[[4-[[[(methylamino)carbonyl]amino]phenyl]sulfonyl]-  
 , mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-  
 trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX  
 NAME)  
 MF C17 H16 Cl F3 O6 S . C16 H17 N3 O5 S  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
 DT.CA CAPLUS document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

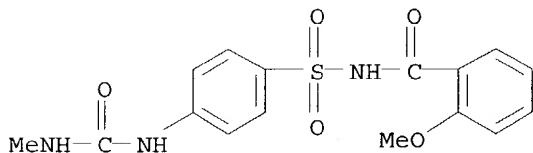
CM 1

CRN 335104-84-2  
 CMF C17 H16 Cl F3 O6 S



CM 2

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 CMF C16 H17 N3 O5 S



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

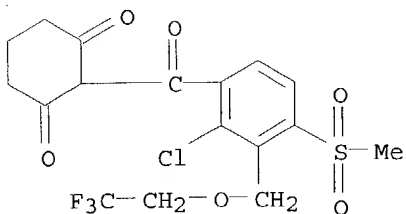
REFERENCE 1: 137:306053

L3 ANSWER 64 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 473278-65-8 REGISTRY  
 CN 3-Isioxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, mixt. with  
 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-  
 1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C16 H13 N O3  
 CI MXS  
 SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

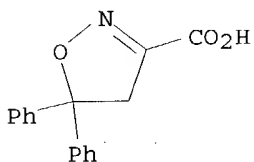
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 CMF C17 H16 Cl F3 O6 S



CM 2

CRN 209866-92-2  
 CMF C16 H13 N O3



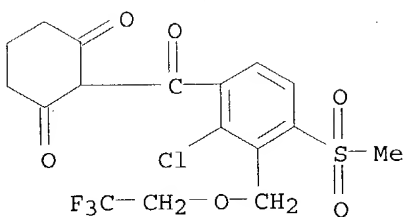
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:306053

L3 ANSWER 65 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 473278-64-7 REGISTRY  
 CN Carbamic acid, [4-[[[(2-methoxybenzoyl)amino]sulfonyl]phenyl]-, methyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
 MF C17 H16 Cl F3 O6 S . C16 H16 N2 O6 S  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

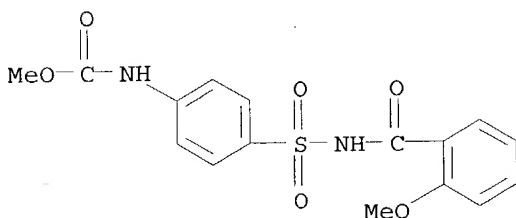
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 CMF C17 H16 Cl F3 O6 S



CM 2

CRN 200201-62-3

CMF C16 H16 N2 O6 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:306053

L3 ANSWER 66 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN

RN 473278-63-6 REGISTRY

CN Benzamide, N-[[4-[(cyclopropylamino)carbonyl]phenyl]sulfonyl]-2-methoxy-,  
mixt. with 2-[[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-  
trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX  
NAME)

MF C18 H18 N2 O5 S . C17 H16 Cl F3 O6 S

CI MXS

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

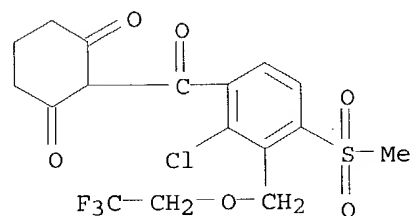
DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

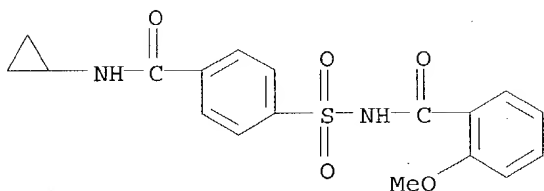
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CMF C17 H16 Cl F3 O6 S



CM 2

CRN 221667-31-8  
CMF C18 H18 N2 O5 S



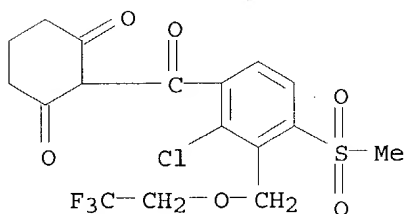
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:306053

L3 ANSWER 67 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 473278-62-5 REGISTRY  
CN 3-Isoxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester, mixt.  
with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX  
NAME)  
MF C18 H17 N O3 . C17 H16 Cl F3 O6 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

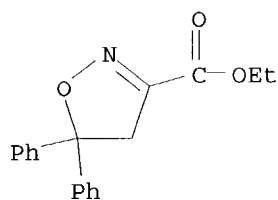
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CMF C17 H16 Cl F3 O6 S



CM 2

CRN 163520-33-0  
CMF C18 H17 N O3



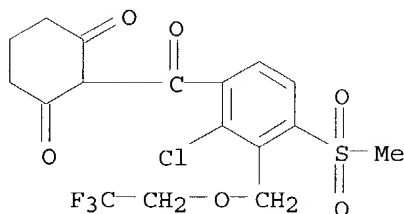
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:306053

L3 ANSWER 68 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 335104-85-3 REGISTRY  
CN Benzoic acid, 4-iodo-2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-, mixt. contg. (9CI)  
MF C17 H16 Cl F3 O6 S . C13 H12 I N5 O6 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

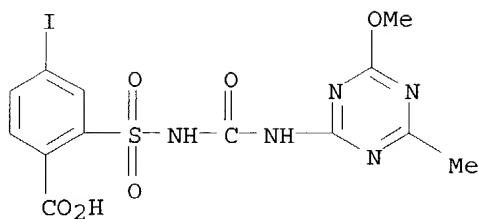
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CRN 335104-84-2  
CMF C17 H16 Cl F3 O6 S



CM 2

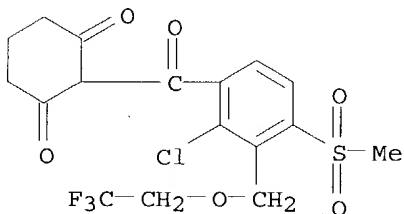
CRN 185119-76-0  
CMF C13 H12 I N5 O6 S



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:306619

L3 ANSWER 69 OF 69 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 335104-84-2 REGISTRY  
CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C17 H16 Cl F3 O6 S  
CI COM  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)  
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

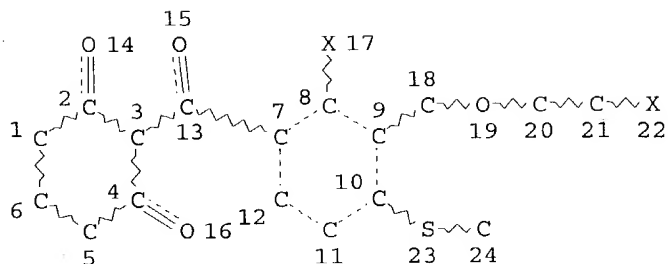
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4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:18607  
REFERENCE 2: 139:2385  
REFERENCE 3: 138:267210  
REFERENCE 4: 138:233416  
REFERENCE 5: 138:200324

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=> d stat que

L1 STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE  
 L3 69 SEA FILE=REGISTRY SSS FUL L1  
 L4 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L3  
 L10 93985 SEA FILE=REGISTRY ABB=ON PLU=ON ETHOXYL? OR ETHYLENE?  
 L11 280638 SEA FILE=REGISTRY ABB=ON PLU=ON PROPOX? OR PROPYLEN?  
 L39 STR

C—G1—C  
 1 2 3

REP G1=(10-10) C  
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 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

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STEREO ATTRIBUTES: NONE  
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 L44 9768 SEA FILE=REGISTRY SUB=L11 SSS FUL L39  
 L45 40432 SEA FILE=HCAPLUS ABB=ON PLU=ON L43  
 L46 12322 SEA FILE=HCAPLUS ABB=ON PLU=ON L44  
 L47 2977 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46  
 L48 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND HERBICIDE  
 L49 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L48 NOT L4

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=> d ibib abs hitstr l49 1-16

L49 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2004:203591 HCAPLUS  
 DOCUMENT NUMBER: 140:230950  
 TITLE: Herbicidal compositions containing dicarboxylic acids  
 to enhance efficacy of glyphosate concentrates and  
 tank mixes  
 INVENTOR(S): Abraham, William; Stern, Michael K.; Graham, Jeffrey

Alan; Xu, Xiaodong Chris; Brinker, Ronald J.; Travers, Jeffrey N.; Reynolds, Tracey L.  
 PATENT ASSIGNEE(S): Monsanto Technology LLC, USA  
 SOURCE: PCT Int. Appl., 331 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004019681	A2	20040311	WO 2003-US27195	20030829
WO 2004019681	A3	20040617		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004097372	A1	20040520	US 2003-653049	20030829
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PRIORITY APPLN. INFO.: US 2002-407180P P 20020831

OTHER SOURCE(S): MARPAT 140:230950

AB Solid and liquid pesticidal concs. and spray compns. are described which exhibit enhanced weed control efficacy due to the addition of a compound which increases 5-enolpyruvylshikimate 3-phosphate synthase (EPSPS) enzyme inhibition by the pesticide, cell membrane permeability, or expression of hydroxyproline-rich glycoproteins. The enhancer comprises a dicarboxylic acid or derivative or precursor, with the molar ratio of glyphosate component to dicarboxylic acid component ranging .apprx.0.18 to .apprx.16 on acid equivalent basis. Thus, ammonium glyphosate was formulated with various dicarboxylic acids along with cationic and nonionic surfactants. Oxalic acid gave the greatest efficacy on velvetleaf; adipic acid provided some efficacy enhancement on Japanese millet.

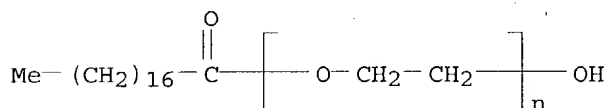
IT 9004-99-3 9005-00-9, Procol SA 20 9005-02-1, Emerest 2622 9087-53-0, Hetoxol CAWS 26635-92-7, Ethoxylated stearylamine

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(dicarboxylic acids, derivs., and precursors enhancement of herbicidal efficacy of glyphosate concs. and tank mix formulations containing)

RN 9004-99-3 HCAPLUS

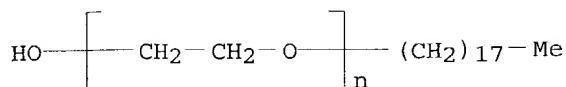
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(1-oxooctadecyl)- $\omega$ -hydroxy- (9CI)  
 (CA INDEX NAME)



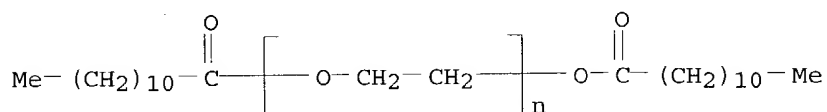
RN 9005-00-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octadecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)





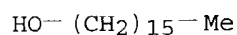
RN 9005-02-1 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(1-oxododecyl)- $\omega$ -[(1-oxododecyl)oxy]- (9CI) (CA INDEX NAME)



RN 9087-53-0 HCAPLUS  
 CN Oxirane, methyl-, polymer with oxirane, hexadecyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 36653-82-4  
 CMF C16 H34 O

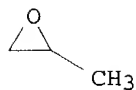


CM 2

CRN 9003-11-6  
 CMF (C3 H6 O . C2 H4 O)x  
 CCI PMS

CM 3

CRN 75-56-9  
 CMF C3 H6 O



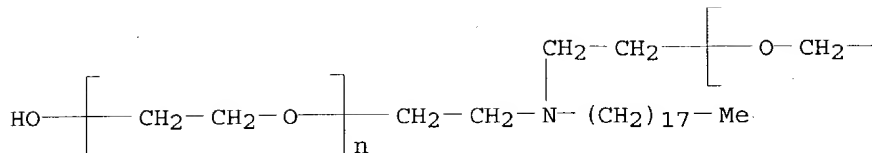
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CRN 75-21-8  
 CMF C2 H4 O

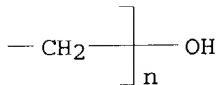


RN 26635-92-7 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha, \alpha'$ -[(octadecylimino)di-2,1-ethanediyl]bis[ $\omega$ -hydroxy- (9CI) (CA INDEX NAME)]

PAGE 1-A



PAGE 1-B



L49 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:221440 HCAPLUS

DOCUMENT NUMBER: 138:250184

TITLE: Adjuvants for pesticides comprising alkoxyated long-chain alcohols and acids

INVENTOR(S): Bell, Gordon Alastair; Hart, Clifford Arthur; Murfitt, Roger Cyril; Sutton, Peter Bernard

PATENT ASSIGNEE(S): Syngenta Limited, UK

SOURCE: PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

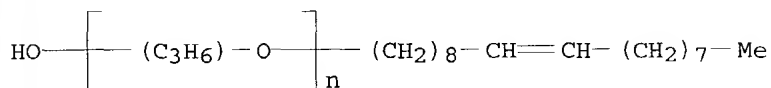
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003022048	A1	20030320	WO 2002-GB3906	20020823
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1427280	A1	20040616	EP 2002-755244	20020823
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.: GB 2001-21580 A 20010906 WO 2002-GB3906 W 20020823				

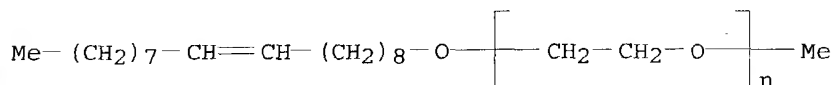
OTHER SOURCE(S): MARPAT 138:250184

AB Adjuvants suitable for use with lipophilic agrochems. comprise alkoxyated long-chain alcs. and acids and their end-capped ethers of the formula (I)  $\text{R}_1-(\text{CO})_m-\text{O}-[\text{R}_2\text{O}]_n-\text{R}_3$  ( $\text{R}_1 = \text{C}_{16}-\text{C}_{20}$  (un)branched alkyl or alkenyl;  $\text{R}_2 = \text{Et}$  or iso-Pr;  $n = 8-30$ ;  $m = 0$  or  $1$ ; and when  $\text{R}_2 = \text{Et}$ ,  $\text{R}_3 = \text{C}_1-\text{C}_7$  alkyl, and when  $\text{R}_2 = \text{iso-Pr}$ ,  $\text{R}_3 = \text{H}$  or  $\text{C}_1-\text{C}_7$  alkyl, provided that when  $\text{R}_1 = \text{oleyl}$ ,  $\text{R}_2 = \text{iso-Pr}$  and  $\text{R}_3 = \text{H}$ ,  $n$  is not  $10$ ). An adjuvant composition comprising an agrochem. and an adjuvant of formula (I) is also claimed. Adjuvants of the invention show effective bioperformance enhancement despite having little or no surfactant properties.

IT 52581-71-2 66197-58-8  
 RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL  
 (Biological study); USES (Uses)  
 (pesticide adjuvant)  
 RN 52581-71-2 HCAPLUS  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -(9Z)-9-octadecenyl- $\omega$ -  
 hydroxy- (9CI) (CA INDEX NAME)



RN 66197-58-8 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -methyl- $\omega$ -[(9Z)-9-octadecenyl- $\omega$ -  
 (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:601979 HCAPLUS

DOCUMENT NUMBER: 137:156464

TITLE: Low-foaming anionic surfactants for various emulsified  
 formulations or dispersions

INVENTOR(S): Gyotoku, Nami; Ida, Yoshimi; Yoshida, Michio

PATENT ASSIGNEE(S): Sanyo Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 200224552	A2	20020813	JP 2001-23926	20010131
PRIORITY APPLN. INFO.:			JP 2001-23926	20010131

AB The surfactants useful for agrochems., rosin sizes and emulsion polymerization, are obtained from  $\geq 2$  of specified alkoxyated aliphatic alc. sulfate ester salts, sulfosuccinate ester salts, ether carboxylic acid salts and phosphate ester salts where the alkoxyated aliphatic alc. base comprises compd(s). R1(OD1)kOH (R1 = C8-24 aliphatic hydrocarbyl, C8-24 alicyclic hydrocarbyl group; D1 = C $\geq 2$  alkylene; k = 1-81) and has weight-average mol. weight (Mw) and number-average mol. weight (Mn) so that Mw/Mn $\leq 0.030 \times \text{Ln}(v) + 1.010$  (when  $v < 10$ ) and Mw/Mn $\leq 0.026 \times \text{Ln}(v) + 1.139$  ( $v \geq 10$ ). Thus, heating lauryl alc. 930 with Mg perchlorate 1.6 and Mg(OH)2 0.15 under N at 120° and 20 mm-Hg for 1 h, ethoxylating the resulting dry product with ethylene oxide 440 parts at 150° and gauge-pressure of 0.1-0.3 MPa for 15 h gave a lauryl alc.-ethylene oxide (1:2) adduct with Mw/Mn 1.0120, which was esterified with chlorosulfonic acid and neutralized with NaOH to give a sulfate salt (I). Esterifying the adduct with maleic anhydride, dehydrating to a diester, sulfonating with acidic Na sulfite and neutralizing gave a sulfosuccinate ester salt (II). Polymerizing Bu acrylate 50 and Me

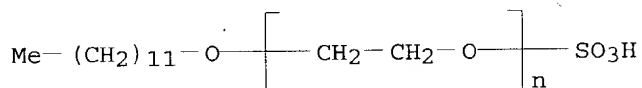
methacrylate 50 in the presence of ammonium persulfate 0.3 and NaHCO<sub>3</sub> 0.1 in water 146.9 containing a 50:50 mixture of I and II, 3.6 parts at 80° for 3 h gave a copolymer in emulsion which was neutralized with 10% NH<sub>3</sub> water to pH 6.5. The copolymer emulsion had solids content 40.8%, polymerization conversion rate 99.5%, and foam height 29 mm.

IT 9004-82-4P, Ethoxylated lauryl alcohol sulfate ester sodium salt  
33939-64-9P 42612-52-2P 99280-35-0P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(low-foaming anionic surfactants for various emulsified formulations or dispersions)

RN 9004-82-4 HCAPLUS

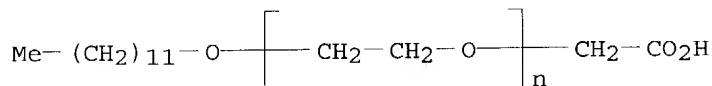
CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(dodecyloxy)-, sodium salt  
(9CI) (CA INDEX NAME)



● Na

RN 33939-64-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-(carboxymethyl)-ω-(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 42612-52-2 HCAPLUS

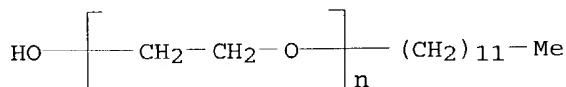
CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-, phosphate, sodium salt (9CI) (CA INDEX NAME)

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CRN 9002-92-0

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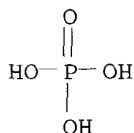
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CRN 7664-38-2

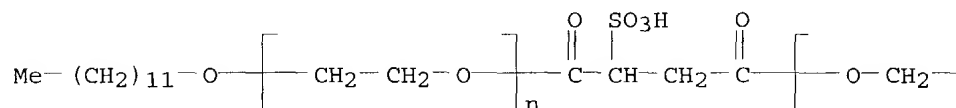
CMF H<sub>3</sub> O<sub>4</sub> P



RN 99280-35-0 HCAPLUS

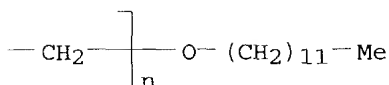
CN Poly(oxy-1,2-ethanediyl),  $\alpha, \alpha'$ -(1,4-dioxo-2-sulfo-1,4-butanediyl)bis[ $\omega$ -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME).

PAGE 1-A



● Na

PAGE 1-B

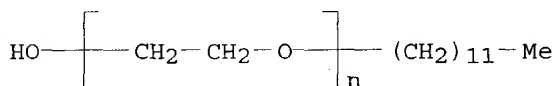


IT 9002-92-0P, Polyethylene glycol lauryl ether 37311-00-5P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(nonionic co-surfactant; low-foaming anionic surfactants for various emulsified formulations or dispersions)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



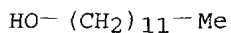
RN 37311-00-5 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, monododecyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 112-53-8

CMF C12 H26 O

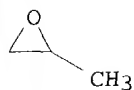


CM 2

CRN 9003-11-6  
 CMF (C3 H6 O . C2 H4 O)x  
 CCI PMS

CM 3

CRN 75-56-9  
 CMF C3 H6 O



CM 4

CRN 75-21-8  
 CMF C2 H4 O



L49 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:244619 HCAPLUS

DOCUMENT NUMBER: 136:274814

TITLE: Dispersants containing alkoxyated aliphatic alcohols, and wettable pesticide powders containing them

INVENTOR(S): Gyoutoku, Nami; Ida, Yoshimi; Yoshida, Masao

PATENT ASSIGNEE(S): Sanyo Chemical Industries Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002097102	A2	20020402	JP 2001-190344	20010622
PRIORITY APPLN. INFO.:			JP 2000-188992	A 20000623
			JP 2000-207762	A 20000710
			JP 2000-219710	A 20000719
			JP 2000-219731	A 20000719

AB The dispersants contain  $\geq 1$  anionic surfactants chosen from aliphatic alc.-alkylene oxide adduct sulfates, sulfosuccinates, phosphates, or ether carboxylic acids satisfying specific conditions. The dispersants show high self-dispersibility and low foaming. A wettable powder was prepared from ethoxylated lauryl alc. Na sulfate 17, dimethoate 40, clay 33, and white carbon 10 weight parts.

IT **116958-68-0P**, Ethylene oxide-propylene oxide block copolymer lauryl carboxymethyl ether sodium salt **406459-55-0P**, Ethylene oxide-propylene oxide block copolymer lauryl ether diester with sodiosulfosuccinic acid

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(triblock; wettable pesticide powders containing alkoxyated aliphatic alcs.

as dispersants)

RN 116958-68-0 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, carboxymethyl dodecyl ether, sodium salt, block (9CI) (CA INDEX NAME)

CM 1

CRN 112-53-8

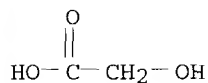
CMF C12 H26 O

HO-(CH<sub>2</sub>)<sub>11</sub>-Me

CM 2

CRN 79-14-1

CMF C2 H4 O3



CM 3

CRN 106392-12-5

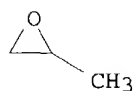
CMF (C3 H6 O . C2 H4 O)x

CCI PMS

CM 4

CRN 75-56-9

CMF C3 H6 O



CM 5

CRN 75-21-8

CMF C2 H4 O



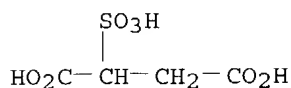
RN 406459-55-0 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, monododecyl ester, C-ester with sulfobutanedioic acid (2:1), block, sodium salt (9CI) (CA INDEX NAME)

CM 1

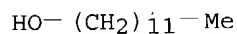
CRN 5138-18-1

CMF C4 H6 O7 S



CM 2

CRN 112-53-8  
CMF C12 H26 O

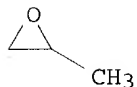


CM 3

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CCI PMS

CM 4

CRN 75-56-9  
CMF C3 H6 O



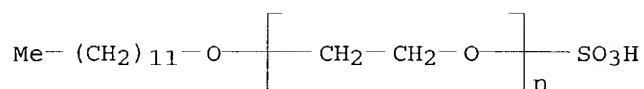
CM 5

CRN 75-21-8  
CMF C2 H4 O



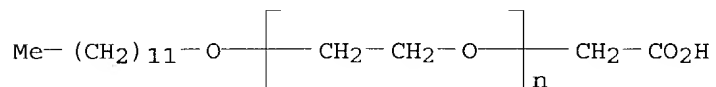
IT 9004-82-4P, Polyethylene glycol lauryl ether sodium sulfate  
33939-64-9P, Polyethylene glycol lauryl carboxymethyl ether sodium  
salt 42612-52-2P, Polyethylene glycol lauryl ether sodium  
phosphate 87936-93-4P 99280-35-0P, Polyethylene glycol  
lauryl ether diester with sodiosulfosuccinic acid  
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological  
study); PREP (Preparation); USES (Uses)  
(wetttable pesticide powders containing alkoxyated aliphatic alcs. as  
dispersants)  
RN 9004-82-4 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(dodecyloxy)-, sodium salt  
(9CI) (CA INDEX NAME)





● Na

RN 33939-64-9 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(carboxymethyl)- $\omega$ -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

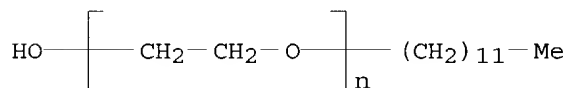
RN 42612-52-2 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy-, phosphate, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 9002-92-0

CMF (C2 H4 O)<sub>n</sub> C12 H26 O

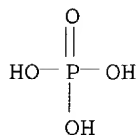
CCI PMS



CM 2

CRN 7664-38-2

CMF H3 O4 P



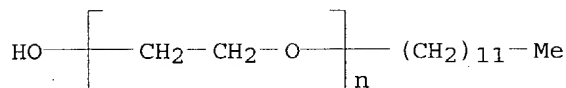
RN 87936-93-4 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -[3-carboxy-1-oxo-2(or 3)-sulfopropoxy]- $\omega$ -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 9002-92-0

CMF (C2 H4 O)<sub>n</sub> C12 H26 O

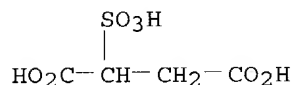
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CM 2

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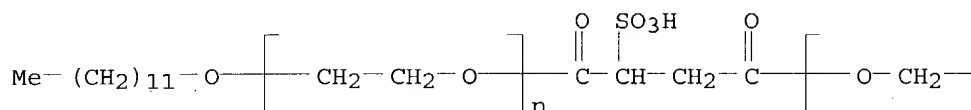
CMF C4 H6 O7 S



RN 99280-35-0 HCAPLUS

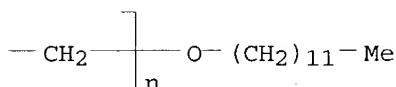
CN Poly(oxy-1,2-ethanediyl),  $\alpha, \alpha'$ -(1,4-dioxo-2-sulfo-1,4-butanediyl)bis[ $\omega$ -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

PAGE 1-B



L49 ANSWER 5 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:868139 HCAPLUS

DOCUMENT NUMBER: 136:1862

TITLE: Surfactants for herbicidal glyphosate formulations

INVENTOR(S): Lennon, Patrick J.; Chen, Xiangyang; Arhancet, Garciela B.; Glaenzer, Jeanette L.; Gillespie, Jane L.; Graham, Jeffrey A.; Becher, David Z.; Wright, Daniel L.; Agbaje, Henry E.; Xu, Xiaodong C.; Abraham, William; Brinker, Ronald J.; Pallas, Norman R.; Wideman, Al S.; Mahoney, Martin D.; Henke, Susan L.

PATENT ASSIGNEE(S): Monsanto Technology, LLC, USA

SOURCE: PCT Int. Appl., 365 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001089302	A2	20011129	WO 2001-US16550	20010521
WO 2001089302	A3	20030626		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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JP 2003535056	T2	20031125	JP 2001-585556	20010521
BR 2001010978	A	20040113	BR 2001-10978	20010521
US 2002123430	A1	20020905	US 2001-988353	20011119
US 2003087764	A1	20030508	US 2001-988352	20011119
US 2003096708	A1	20030522	US 2001-988340	20011119
WO 2002069718	A2	20020912	WO 2002-US6709	20020301
WO 2002069718	A3	20021031		
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US 2003104943	A1	20030605	US 2002-926521	20020426
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WO 2002102153	A2	20021227	WO 2002-US15977	20020521
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 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 NZ 529552 A 20031219 NZ 2002-529552 20020521  
 EP 1389040 A2 20040218 EP 2002-747849 20020521  
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PRIORITY APPLN. INFO.:  
 US 2000-205524P P 20000519  
 US 2000-206628P P 20000524  
 US 2001-273234P P 20010302  
 US 2001-274368P P 20010308  
 WO 2001-US16550 W 20010521  
 US 2001-926521 A2 20011114  
 US 2001-988340 A 20011119  
 US 2001-988352 A 20011119  
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 US 2002-926521 A2 20020426  
 WO 2002-US15977 W 20020521

OTHER SOURCE(S): MARPAT 136:1862

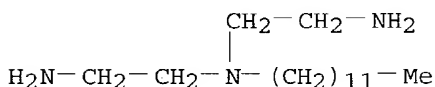
AB A herbicidal composition is provided comprising an aqueous solution of glyphosate, predominantly in the form of the potassium salt, at a concentration  $\geq 300$  g/L and a surfactant solution or stable suspension, emulsion, or dispersion in the water, at 20-300 g/L, wherein the composition has a viscosity  $< 250$  cP at  $0^\circ$  or a Gardner color value  $< 10$ . The surfactants are amines or quaternary ammonium salts. When the formulation is applied to plants, liquid crystals comprising the surfactant are formed on leaves.

IT 4182-44-9 51853-20-4

RL: MOA (Modifier or additive use); USES (Uses)  
 (surfactant for herbicidal glyphosate formulations)

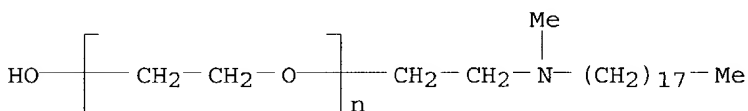
RN 4182-44-9 HCAPLUS

CN 1,2-Ethanediamine, N-(2-aminoethyl)-N-dodecyl- (9CI) (CA INDEX NAME)



RN 51853-20-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -[2-(methyloctadecylamino)ethyl]- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

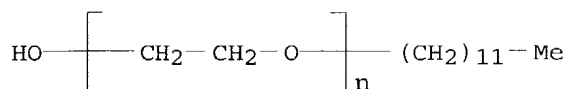


IT 9002-92-0, Brij35 9004-95-9, Brij56 9005-00-9,  
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 37311-01-6D, dimethylamine ether derivs. 65150-81-4D,  
 dimethylamine ether derivs.

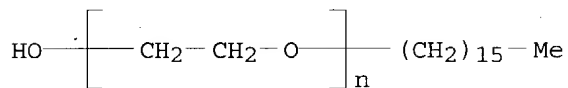
RL: MOA (Modifier or additive use); USES (Uses)  
 (surfactant in herbicidal glyphosate formulations)

RN 9002-92-0 HCAPLUS

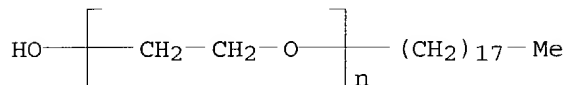
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



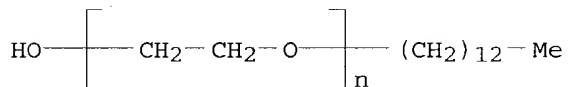
RN 9004-95-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -hexadecyl- $\omega$ -hydroxy- (9CI) (CA  
 INDEX NAME)



RN 9005-00-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octadecyl- $\omega$ -hydroxy- (9CI) (CA  
 INDEX NAME)



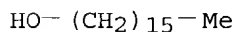
RN 24938-91-8 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -tridecyl- $\omega$ -hydroxy- (9CI) (CA  
 INDEX NAME)



RN 37311-01-6 HCAPLUS  
 CN Oxirane, methyl-, polymer with oxirane, monohexadecyl ether (9CI) (CA  
 INDEX NAME)

CM 1

CRN 36653-82-4  
 CMF C16 H34 O

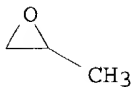


CM 2

CRN 9003-11-6  
 CMF (C3 H6 O . C2 H4 O) x  
 CCI PMS

CM 3

CRN 75-56-9  
 CMF C3 H6 O



CM 4  
 CRN 75-21-8  
 CMF C2 H4 O



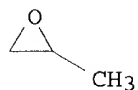
RN 65150-81-4 HCAPLUS  
 CN Oxirane, methyl-, polymer with oxirane, monotridecyl ether (9CI) (CA INDEX NAME)

CM 1  
 CRN 112-70-9  
 CMF C13 H28 O

Me-(CH<sub>2</sub>)<sub>12</sub>-OH

CM 2  
 CRN 9003-11-6  
 CMF (C3 H6 O . C2 H4 O)x  
 CCI PMS

CM 3  
 CRN 75-56-9  
 CMF C3 H6 O



CM 4  
 CRN 75-21-8  
 CMF C2 H4 O



L49 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2001:762777 HCAPLUS  
 DOCUMENT NUMBER: 135:334992

TITLE: Stable aqueous surfactant compositions containing  
acrylate copolymers as rheology modifiers  
INVENTOR(S): Schmucker-Castner, Julie F.; Ambuter, Hal; Snyder,  
Marcia; Weaver, Ashley A.; Kotian, Sahira V.  
PATENT ASSIGNEE(S): Noveon IP Holdings Corp., USA  
SOURCE: PCT Int. Appl., 87 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001076552	A2	20011018	WO 2001-US40480	20010411
WO 2001076552	A3	20020919		
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US 6635702	B1	20031021	US 2000-547595	20000411
EP 1272159	A2	20030108	EP 2001-931125	20010411
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003530446	T2	20031014	JP 2001-574070	20010411
BR 2001009990	A	20040323	BR 2001-9990	20010411
ZA 2002008119	A	20030717	ZA 2002-8119	20021009
US 2004087668	A1	20040506	US 2003-602956	20030623
PRIORITY APPLN. INFO.: US 2000-547595 A 20000411 WO 2001-US40480 W 20010411				

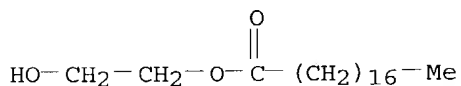
AB A stable, aqueous composition comprises a substantially crosslinked alkali-swellable acrylate copolymer rheol. modifier, a surfactant, an alkaline material, and various compds. therein, as for example substantially insol. materials requiring suspension or stabilization, such as a silicone, an oily material, or a pearlescent material. Addnl., this invention also relates to the formation of a rheol. and phase stable cationic hair dye composition. The invention further relates to the incorporation of an acidic material after the addition of an alkaline material to reduce the pH of the composition without neg. impacting the viscosity of the composition. For example, a pearlized 3-in-1 conditioning shampoo was prepared from (part A) an acrylate crosspolymer 4.0%, 25% sodium laureth sulfate 25.0%, 18% NaOH 0.75%, and water up to 100%, (part B) 18% NaOH 0.05%, guar hydroxypropyltrimonium chloride 0.3%, and water up to 100%, (part C) 50% lauryl glucoside 4.0%, 29% sodium lauryl sulfate 15.0%, Euperlan PK-3000 3.0%, DC 1664 Emulsion 3.0%, 35% cocamidopropylbetaine 3.0%, Lamesoft PO-65 1.0%, fragrance 0.50%, Phenonip 0.50%, and 50% citric acid 0.40%. The conditioning shampoo obtained was a stable, satiny, pearlized viscous liquid of pH 5.5-5.8 and surfactant activity of 13.7%.

IT 111-60-4, Ethylene glycol monostearate 627-83-8,  
Ethylene glycol distearate 9004-82-4, Rhodapex ES 2  
9005-08-7, Polyethylene glycol distearate 58450-52-5,  
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Arlacel 165

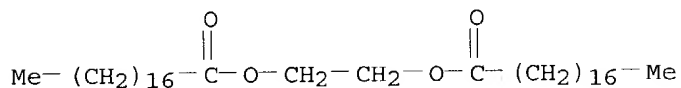
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(stable aqueous surfactant compns. containing crosslinked alkali-swellable acrylate copolymers as rheol. modifiers)

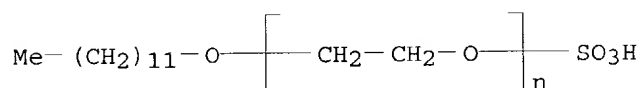
RN 111-60-4 HCAPLUS  
CN Octadecanoic acid, 2-hydroxyethyl ester (9CI) (CA INDEX NAME)



RN 627-83-8 HCAPLUS  
CN Octadecanoic acid, 1,2-ethanediyl ester (9CI) (CA INDEX NAME)

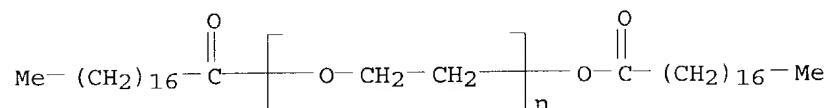


RN 9004-82-4 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 9005-08-7 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(1-oxooctadecyl)- $\omega$ -[(1-oxooctadecyl)oxy]- (9CI) (CA INDEX NAME)



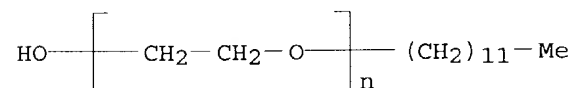
RN 58450-52-5 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(3-carboxy-1-oxosulfopropyl)- $\omega$ -(dodecyloxy)-, disodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 9002-92-0

CMF (C2 H4 O)<sub>n</sub> C12 H26 O

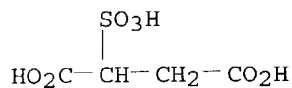
CCI PMS



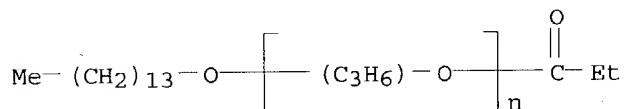
CM 2



CRN 5138-18-1  
CMF C4 H6 O7 S



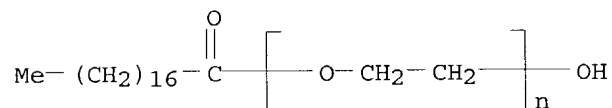
RN 74775-06-7 HCAPLUS  
CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -(1-oxopropyl)- $\omega$ -(tetradecyloxy)- (9CI) (CA INDEX NAME)



RN 84750-06-1 HCAPLUS  
CN Octadecanoic acid, monoester with 1,2,3-propanetriol, mixt. with  $\alpha$ -(1-oxooctadecyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 9004-99-3  
CMF (C2 H4 O)<sub>n</sub> C18 H36 O2  
CCI PMS

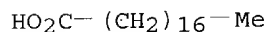


CM 2

CRN 31566-31-1  
CMF C21 H42 O4  
CCI IDS

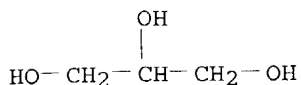
CM 3

CRN 57-11-4  
CMF C18 H36 O2



CM 4

CRN 56-81-5  
CMF C3 H8 O3



L49 ANSWER 7 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:319660 HCAPLUS

DOCUMENT NUMBER: 134:322067

TITLE: Novel pesticide and/or growth regulating formulations comprising a two-component non-ionic surfactant

INVENTOR(S): Farre, Francois; Segaud, Christian; Zerrouk, Robert

PATENT ASSIGNEE(S): Aventis CropScience SA, Fr.

SOURCE: PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001030147	A1	20010503	WO 2000-FR2977	20001026
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2800242	A1	20010504	FR 1999-13842	19991029
BR 2000014834	A	20020618	BR 2000-14834	20001026
EP 1223807	A1	20020724	EP 2000-971507	20001026
EP 1223807	B1	20031210		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003523321	T2	20030805	JP 2001-532587	20001026
AT 255811	E	20031215	AT 2000-971507	20001026
ZA 2002003176	A	20030722	ZA 2002-3176	20020422
BG 106711	A	20030228	BG 2002-106711	20020516

PRIORITY APPLN. INFO.:

FR 1999-13842 A 19991029  
WO 2000-FR2977 W 20001026

AB The invention concerns pesticide and/or growth regulating compns. for plants containing a particular non-ionic surfactant comprising two different constituents: (1) whereof the mol. mass ranges between 200 and 3000 g/mol, preferably between 300 and 1000 g/mol; (2) whereof the dynamic tension, measured in water, at a concentration of 0.4 g per L at a frequency of 10 Hz, ranges between 35 and 73 mN/m; (3) and each comprising: 3(i) a hydrophobic part selected among the C13 oxo alc. groups;  $\alpha$ -isodecyl- $\omega$ -hydroxy-isodecyl alc.; C12-14 linear alcs.; C16-18 linear alcs.; lauryl alc.; myristic alc.; do- and/or tetradecanols; distyrylphenol-di-(phenyl-1-ethyl) phenols; nonylphenols; acetylene diols, in particular tetra-(methyl-2,4,7,9)-5-decyne; tridecyl alcs.; and whereof the molar mass ranges between 100 and 1500 g/mol, preferably between 150 and 400 g/mol; 3(ii) a hydrophilic part selected among a poly-(oxy 1,2 ethane-di-yl), whereof the molar mass ranges between 80 and 2000 g/mol, preferably between 100 and 900 g/mol; (4) the difference in molar mass of the hydrophobic parts of said two chemical constituents is less than 140 g/mol; (5) the difference in molar mass of the hydrophilic parts of said

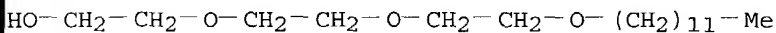
two chemical constituents being less than 360 g/mol. The invention also concerns the non-ionic surfactant.

IT 3055-94-5 26826-30-2 37311-00-5  
37311-04-9

RL: MOA (Modifier or additive use); USES (Uses)  
(non-ionic surfactant for pesticide and/or growth regulating  
formulations containing)

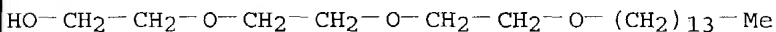
RN 3055-94-5 HCAPLUS

CN Ethanol, 2-[2-[2-(dodecyloxy)ethoxy]ethoxy]- (6CI, 7CI, 8CI, 9CI) (CA  
INDEX NAME)



RN 26826-30-2 HCAPLUS

CN Ethanol, 2-[2-[2-(tetradecyloxy)ethoxy]ethoxy]- (6CI, 7CI, 8CI, 9CI) (CA  
INDEX NAME)



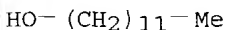
RN 37311-00-5 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, monododecyl ether (9CI) (CA INDEX  
NAME)

CM 1

CRN 112-53-8

CMF C12 H26 O



CM 2

CRN 9003-11-6

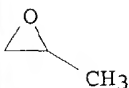
CMF (C3 H6 O . C2 H4 O) x

CCI PMS

CM 3

CRN 75-56-9

CMF C3 H6 O



CM 4

CRN 75-21-8

CMF C2 H4 O



RN 37311-04-9 HCAPLUS  
 CN Oxirane, methyl-, polymer with oxirane, monotetradecyl ether (9CI) (CA  
 INDEX NAME)

CM 1

CRN 112-72-1  
 CMF C14 H30 O

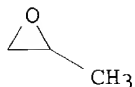
HO-(CH<sub>2</sub>)<sub>13</sub>-Me

CM 2

CRN 9003-11-6  
 CMF (C3 H6 O . C2 H4 O)x  
 CCI PMS

CM 3

CRN 75-56-9  
 CMF C3 H6 O



CM 4

CRN 75-21-8  
 CMF C2 H4 O



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:799651 HCAPLUS

DOCUMENT NUMBER: 132:9960

TITLE: The synergistic compounds for agricultural chemicals  
 and their applications

INVENTOR(S): Hasebe, Keiko; Tomioka, Keiichiro; Suzuki, Tadayuki

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 63 pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 2

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1154060	A	19970709	CN 1995-194294	19950524
CN 1070337	B	20010905		

## PRIORITY APPLN. INFO.:

JP 1994-121547 A 19940602

AB The mol. formula of synergist I is  $[R_1(CHR_4OCHR_7)_p]N[(CHR_8CHR_5O)qR_2][(CHR_9CHR_6O)rR_3]$ , where  $R_1$ , and/or  $R_2$ , and/or  $R_3 = H$ , C5-29 alkyl, or alkenyl etc.;  $p$ , and/or  $q$ , and/or  $r = 1-30$ ;  $R_4 = R_5 = R_6 = R_7 = R_8 = R_9 = H$ , or Me or Et. The mol. formula of synergist II is  $[(CHR_{18}CHR_{19}O)uCOR_{20}]R_{17}N+[(CHR_{15}CHR_{12}O)sR_{11}][(CHR_{14}CHR_{13}O)tR_{10}] \cdot X^-$ , where  $R_{12} = R_{13} = R_{14} = R_{15} = R_{18} = R_{19} = H$ , Me, or ethyl;  $R_{20} = H$ , C5-29 alkyl, or alkenyl etc.;  $R_{10} = R_{11} = H$ , C5-29 alkyl or alkenyl, -COR<sub>14</sub> etc.,  $R_{17} = H$ , C1-C4 alkyl or alkenyl, and benzyl etc. The synergist I and II combining with surfactants and chelating agent show synergistic effect on fungicide, pesticide, miticide, **herbicide**, and plant growth regulator, such as Diuron, Herbiace, Roundup, Osadan, fenitrothion, malathion, and benomyl.

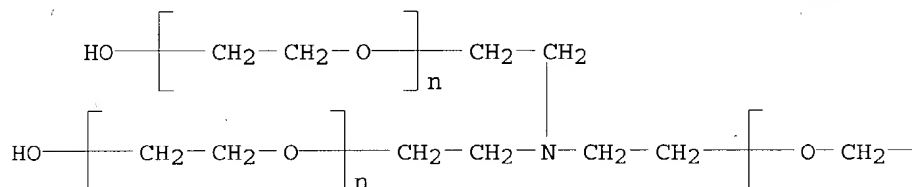
IT 27014-41-1 173104-07-9 173104-08-0

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(synergistic compds. for agricultural chems. and their applications)

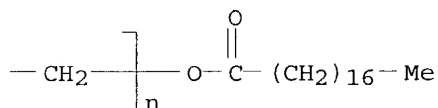
RN 27014-41-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\omega, \omega'$ -dihydroxy- $\omega''$ -[(1-oxooctadecyl)oxy]- $\alpha, \alpha', \alpha''$ -(nitrilotri-2,1-ethanediyl)tris- (9CI) (CA INDEX NAME)

PAGE 1-A



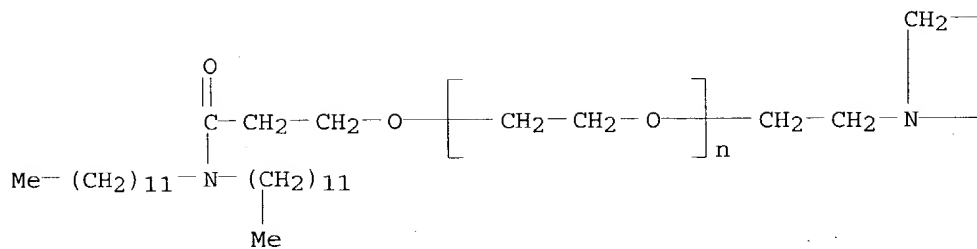
PAGE 1-B



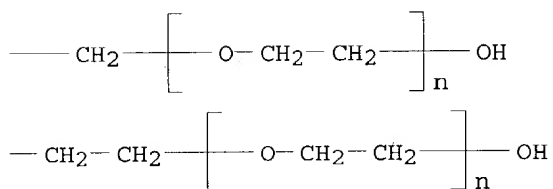
RN 173104-07-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\omega$ -[3-(didodecylamino)-3-oxopropoxy]- $\omega', \omega''$ -dihydroxy- $\alpha, \alpha', \alpha''$ -(nitrilotri-2,1-ethanediyl)tris- (9CI) (CA INDEX NAME)

PAGE 1-A

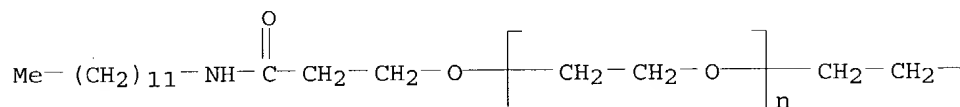


PAGE 1-B

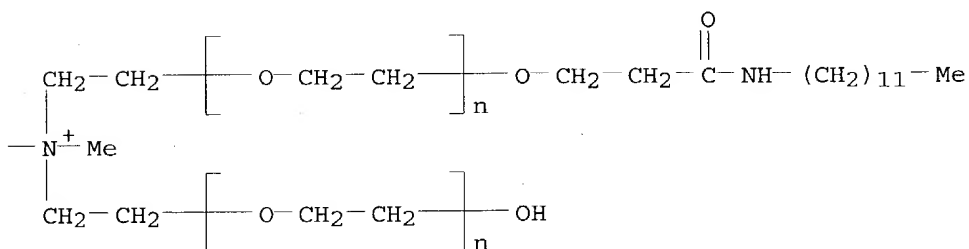


RN 173104-08-0 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\omega,\omega'$ -bis[3-(dodecylamino)-3-oxopropoxy]- $\omega''$ -hydroxy- $\alpha,\alpha',\alpha''$ -[(methylnitrilio)tri-2,1-ethanediyl]tris-, chloride (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



ACCESSION NUMBER: 1999:113518 HCAPLUS  
 DOCUMENT NUMBER: 130:178759  
 TITLE: Aqueous high-activity **herbicide** concentrates, as stable colloidal dispersions of supramolecular aggregates  
 INVENTOR(S): Soula, Gerard G.; Meyrueix, Remi; Lemerrier, Alain J. L.; Bryson, Nathan J.; Soula, Olivier; Ward, Anthony J. I.; Gillespie, Jane L.; Brinker, Ronald J.  
 PATENT ASSIGNEE(S): Monsanto Company, USA  
 SOURCE: PCT Int. Appl., 109 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9905914	A1	19990211	WO 1998-US15647	19980729
W:		AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
RW:		GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
FR 2766669	A1	19990205	FR 1997-9983	19970730
FR 2766669	B1	19991029		
AU 9885980	A1	19990222	AU 1998-85980	19980729
AU 746589	B2	20020502		
EP 1001680	A1	20000524	EP 1998-937214	19980729
R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI		
US 6133199	A	20001017	US 1998-124318	19980729
NZ 502499	A	20011130	NZ 1998-502499	19980729
ZA 9806838	A	19990419	ZA 1998-6838	19980730
PRIORITY APPLN. INFO.:			FR 1997-9983	A 19970730
			US 1998-82974P	P 19980424
			US 1998-83005P	P 19980424
			WO 1998-US15647	W 19980729

OTHER SOURCE(S): MARPAT 130:178759

AB A plant treatment composition for application of an anionic exogenous chemical substance such as glyphosate **herbicide** to foliage of a plant, is provided. The composition is a colloidal dispersion having supramol. aggregates dispersed in an aqueous application medium. The supramol. aggregates comprise one or more amphiphilic salt(s) having anions of the exogenous chemical substance and cations derived by protonation of one or more polyamine(s) or polyamine deriv(s)., each having (a) at least two nitrogen-containing groups, of which a number n, not less than 1, are amino groups that can be protonated to form cationic primary, secondary or tertiary ammonium groups, and (b) at least one hydrocarbyl or acyl group having about 6 to about 30 carbon atoms. The composition contains (i) a molar amount X in total of the exogenous chemical substance, in all salt and acid forms thereof present, sufficient to elicit a biol. response when the composition is applied to the foliage of the plant at a rate of 10-1000 L/ha, (ii) a molar amount A in total of the polyamine(s) and derivative(s) thereof and cations derived therefrom, and (iii) a zero or molar amount B in total of one or more monovalent base(s) and cations derived therefrom, the base(s) being other than a polyamine or derivative thereof, such that  $nA/(nA + B) = 0.01-1$ , and  $(nA + B)/X = 0.5-10$ . Preparation of the polyamines is given. Also provided are a liquid concentrate composition which, upon dilution with water, forms

plan treatment composition as described above, and a process for making such a liquid concentrate composition Plant treatment compns. of the invention are useful for eliciting a biol. activity, for example herbicidal activity, in a plant when applied to foliage.

IT 5538-95-4, N-Lauryltrimethylenediamine  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (Genamin LAP 100D; formulation ingredient in aqueous herbicidal concs. as stable colloidal dispersions of supramol. aggregates)

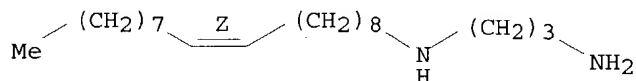
RN 5538-95-4 HCAPLUS  
 CN 1,3-Propanediamine, N-dodecyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IT 7173-62-8, Radiamine 6572  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (Radiamine 6572; formulation ingredient in aqueous herbicidal concs. as stable colloidal dispersions of supramol. aggregates)

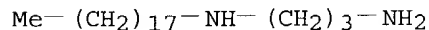
RN 7173-62-8 HCAPLUS  
 CN 1,3-Propanediamine, N-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



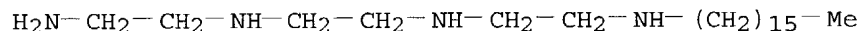
IT 4253-76-3  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (formulation ingredient in aqueous herbicidal concs. as stable colloidal dispersions of supramol. aggregates)

RN 4253-76-3 HCAPLUS  
 CN 1,3-Propanediamine, N-octadecyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IT 13013-88-2P 43208-98-6P 51946-06-6P  
 56166-93-9P 67785-94-8P 93918-49-1P  
 122595-09-9P  
 RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
 (preparation as formulation ingredient in aqueous herbicidal concs. as stable colloidal dispersions of supramol. aggregates)

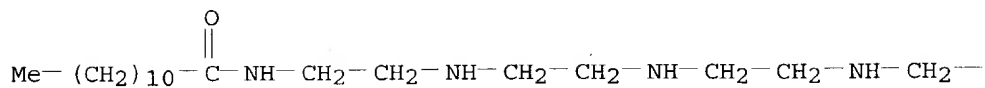
RN 13013-88-2 HCAPLUS  
 CN 1,2-Ethanediamine, N-(2-aminoethyl)-N'-[2-(hexadecylamino)ethyl]- (9CI) (CA INDEX NAME)



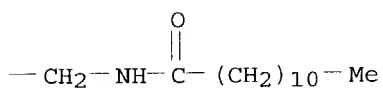
RN 43208-98-6 HCAPLUS  
 CN Dodecanamide, N,N'-[iminobis(2,1-ethanediylimino-2,1-ethanediyl)]bis- (9CI) (CA INDEX NAME)



PAGE 1-A

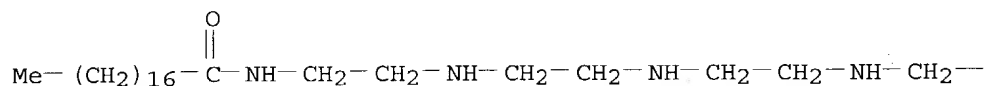


PAGE 1-B

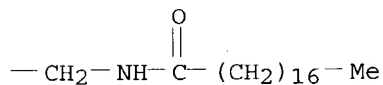


RN 51946-06-6 HCAPLUS  
 CN Octadecanamide, N,N'-[iminobis(2,1-ethanediylimino-2,1-ethanediyl)]bis-  
 (9CI) (CA INDEX NAME)

PAGE 1-A

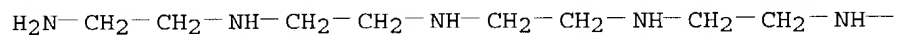


PAGE 1-B

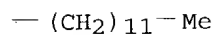


RN 56166-93-9 HCAPLUS  
 CN 1,2-Ethanediamine, N-[2-[(2-aminoethyl)amino]ethyl]-N'-[2-(  
 (dodecylamino)ethyl)]- (9CI) (CA INDEX NAME)

PAGE 1-A



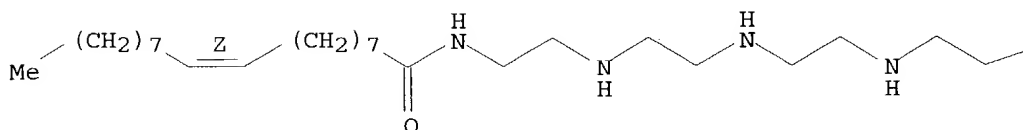
PAGE 1-B



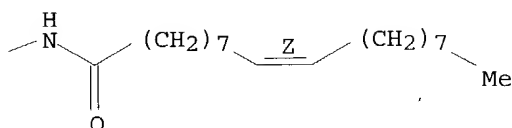
RN 67785-94-8 HCAPLUS  
 CN 9-Octadecenamide, N,N'-[iminobis(2,1-ethanediylimino-2,1-ethanediyl)]bis-,  
 (9Z,9'Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

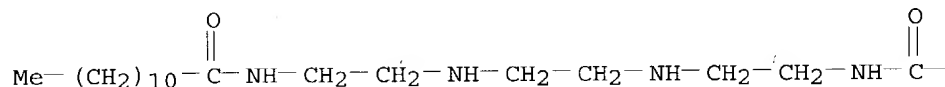


PAGE 1-B



RN	93918-49-1	HCAPLUS
CN	Dodecanamide, N,N'-[1,2-ethanediylbis(imino-2,1-ethanediyl)]bis- (9CI)	
	(CA INDEX NAME)	

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PAGE 1-B

$$-(\text{CH}_2)_{10}-\text{Me}$$

RN 122595-09-9 HCAPLUS  
CN 1,2-Ethanediamine, N-(2-aminoethyl)-N'-[2-(octadecylamino)ethyl]- (9CI)  
(CA INDEX NAME)

$$\text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{NH}-\text{CH}_2-\text{CH}_2-\text{NH}-\text{CH}_2-\text{CH}_2-\text{NH}-(\text{CH}_2)_{17}-\text{Me}$$

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1997:618637 HCAPLUS  
DOCUMENT NUMBER: 127:289384  
TITLE: Low-viscosity aqueous suspensions containing  
water-insoluble pesticides with good storage stability  
INVENTOR(S): Hirokawa, Takashi; Sato, Yoshihiro  
PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 09241102	A2	19970916	JP 1996-50095	19960307
PRIORITY APPLN. INFO.:				JP 1996-50095	19960307

AB The title suspensions contain heteropolysaccharide gums and hydrophobized silica. Hard water as well as soft water is used for the suspensions. An aqueous suspension (viscosity 220 mPa-s) containing xanthane gum, Newkalgen FS-1 (polyoxyethylene arylphenyl ether), Sorpol 7290P (polyoxyethylene arylphenyl ether sulfate), pyributicarb, and hydrophobized silica was preserved at 40° for 3 mo to show viscosity 215 mPa-s.

IT **9009-39-6**, Brian P 30350L  
 RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)  
 (surfactant; low-viscosity aqueous suspensions containing water-insol. pesticides, heteropolysaccharides, and hydrophobized silica with good storage stability)

RN 9009-39-6 HCAPLUS

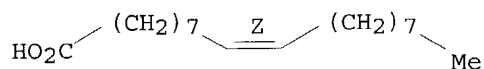
CN Oxirane, methyl-, polymer with oxirane, mono-(9Z)-9-octadecenoate (9CI)  
 (CA INDEX NAME)

CM 1

CRN 112-80-1

CMF C18 H34 O2

Double bond geometry as shown.



CM 2

CRN 9003-11-6

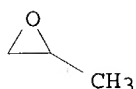
CMF (C3 H6 O . C2 H4 O)x

CCI PMS

CM 3

CRN 75-56-9

CMF C3 H6 O



CM 4

CRN 75-21-8

CMF C2 H4 O



L49 ANSWER 11 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1997:283952 HCAPLUS  
 DOCUMENT NUMBER: 126:260439  
 TITLE: Stable herbicidal aqueous emulsions containing  
 pyributicarb  
 INVENTOR(S): Hirokawa, Takashi; Yamada, Naotaka  
 PATENT ASSIGNEE(S): Dainippon Ink & Chemicals, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09052810	A2	19970225	JP 1995-203236	19950809
PRIORITY APPLN. INFO.:			JP 1995-203236	19950809

AB The herbicidal emulsions contain (a) O-3-tert-butylphenyl 6-methoxy-2-pyridyl(methyl)thiocarbamate (pyributicarb) (I) as an active ingredient, (b) emulsifiers selected from polyoxyethylene tristyrylphenyl ether and polyoxyethylene-polyoxypropylene block copolymer (II) or its derivs., (c) surfactants, as emulsion stabilizers, selected from polyoxyethylene alkylamino ethers, silicone glycols, polyethylene-polyamine polyalkylene glycol ethers, polyoxyethylene arylphenyl ether phosphate ester salts, polyoxyethylene arylphenyl ether sulfate ester salts, and higher alcs., (d) aromatic compds. as organic solvents, and (e) H2O. An aqueous emulsion containing I 12.5, Newkalgen 5050PB (II) 4, X2-5309 (silicone glycol) 5, Solvesso 200 (solvent) 39.5, ethylene glycol 5, and H2O 34 weight parts did not show crystal precipitation by storage at 50° for 30 days or at -5° for 30 days.

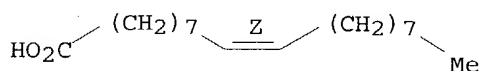
IT 9009-39-6, Brian P 30350L  
 RL: AGR (Agricultural use); MOA (Modifier or additive use); PRP (Properties); BIOL (Biological study); USES (Uses)  
 (emulsifier; stable herbicidal aqueous emulsions containing pyributicarb, emulsifiers, emulsion stabilizers, and organic solvents)

RN 9009-39-6 HCAPLUS  
 CN Oxirane, methyl-, polymer with oxirane, mono-(9Z)-9-octadecenoate (9CI)  
 (CA INDEX NAME)

CM 1

CRN 112-80-1  
 CMF C18 H34 O2

Double bond geometry as shown.

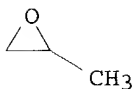


CM 2

CRN 9003-11-6  
 CMF (C3 H6 O . C2 H4 O)x  
 CCI PMS

CM 3

CRN 75-56-9  
CMF C3 H6 O



CM 4

CRN 75-21-8  
CMF C2 H4 O



L49 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:87122 HCAPLUS  
DOCUMENT NUMBER: 124:168279  
TITLE: Trialkanolamine derivatives as pesticide enhancers.  
INVENTOR(S): Hasebe, Keiko; Tomioka, Keiichiro; Suzuki, Tadayuki;  
Hioki, Yuichi  
PATENT ASSIGNEE(S): Kao Corp., Japan  
SOURCE: PCT Int. Appl., 108 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9533379	A2	19951214	WO 1995-JP996	19950524
WO 9533379	A3	19960125		
W: BR, CN, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 762830	A2	19970319	EP 1995-919627	19950524
EP 762830	B1	20011219		
R: BE, DE, ES, FR, GB, IT				
BR 9507760	A	19970902	BR 1995-7760	19950524
JP 10501800	T2	19980217	JP 1995-500643	19950524
ES 2170147	T3	20020801	ES 1995-919627	19950524
US 5849663	A	19981215	US 1996-737467	19961121
US 6008158	A	19991228	US 1998-165318	19981002

PRIORITY APPLN. INFO.:  
JP 1994-121547 A 19940602  
JP 1995-36065 A 19950131  
WO 1995-JP996 W 19950524

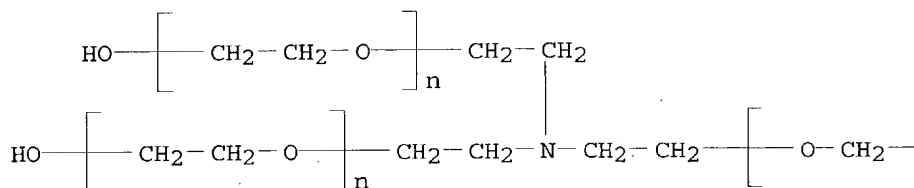
AB The tertiary amines [R1(CR4HOCHR7)p]N[(CR8HCR5O)qR2] [(CR9HCR6HO)rR3] (R1,R2,R3=H,alkyl, alkenyl, etc.;R4-R9=H or Me;p,q,r=1-30) and the related quaternary ammonium compds. are enhancers for acaricides, insecticides, fungicides, **herbicides** and plant growth regulators.

IT 27014-41-1 173104-07-9 173104-08-0  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(pesticide enhancer)

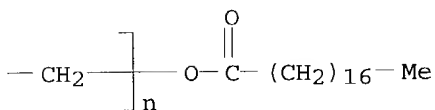
RN 27014-41-1 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl), ω,ω'-dihydroxy-ω''-[(1-oxooctadecyl)oxy]-α,α',α''-(nitrilotri-2,1-

ethanediyl)tris- (9CI) (CA INDEX NAME)

PAGE 1-A



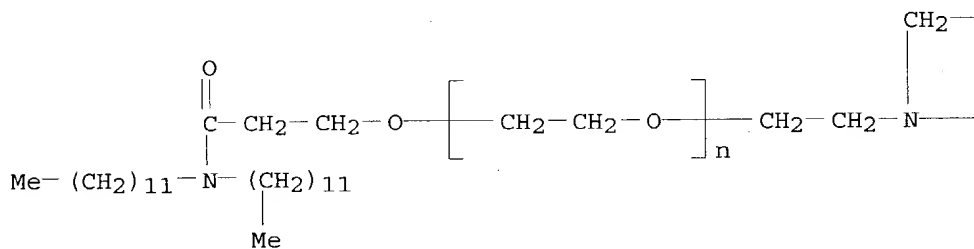
PAGE 1-B



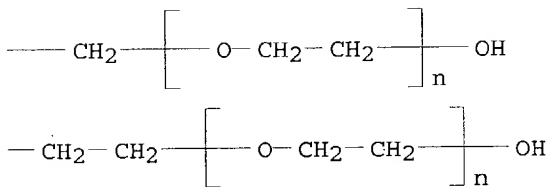
RN 173104-07-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\omega$ -[3-(didodecylamino)-3-oxopropoxy]- $\omega'$ , $\omega''$ -dihydroxy- $\alpha$ , $\alpha'$ , $\alpha''$ -(nitrilotri-2,1-ethanediyl)tris- (9CI) (CA INDEX NAME)

PAGE 1-A



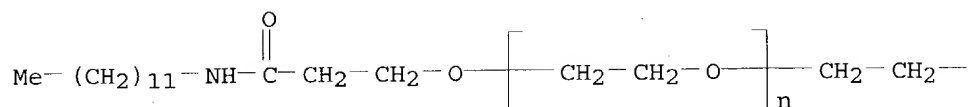
PAGE 1-B



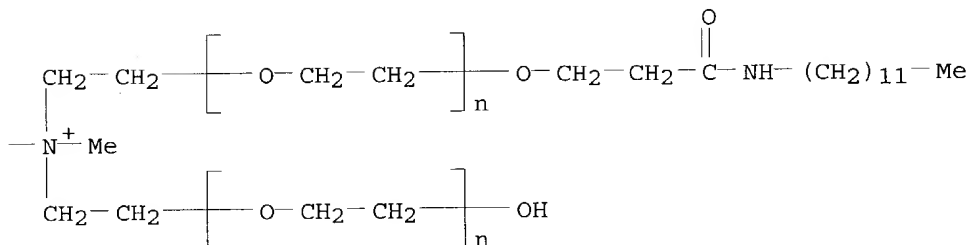
RN 173104-08-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\omega$ , $\omega'$ -bis[3-(dodecylamino)-3-oxopropoxy]- $\omega''$ -hydroxy- $\alpha$ , $\alpha'$ , $\alpha''$ -(nitrilotri-2,1-ethanediyl)tris-, chloride (9CI) (CA INDEX NAME)

PAGE 1-A

● Cl<sup>-</sup>

PAGE 1-B



L49 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:548918 HCAPLUS

DOCUMENT NUMBER: 111:148918

TITLE: Active agents such as pharmaceuticals and pesticides entrapped in polymethacrylate lattices

INVENTOR(S): Abrutyn, Eric S.; Chromecek, Richard C.; Scarfo, Louis J.

PATENT ASSIGNEE(S): Dow Corning Corp., USA

SOURCE: Eur. Pat. Appl., 36 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

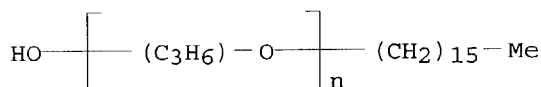
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

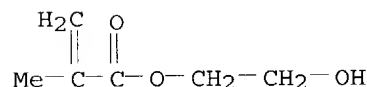
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 252463	A2	19880113	EP 1987-109662	19870704
EP 252463	A3	19890712		
R: BE, CH, DE, FR, GB, IT, LI, NL				
US 4855127	A	19890808	US 1987-53609	19870520
AU 8774919	A1	19880114	AU 1987-74919	19870629
AU 612114	B2	19910704		
BR 8703406	A	19880322	BR 1987-3406	19870706
CA 1316902	A1	19930427	CA 1987-541340	19870706
JP 63218765	A2	19880912	JP 1987-167951	19870707
ES 2006518	A6	19890501	ES 1987-1982	19870707
PRIORITY APPLN. INFO.:			US 1986-882609	19860707
			US 1987-53609	19870520
			US 1981-246663	19810323
			US 1984-683603	19841212

AB A solid, lattice-entrapped noncosmetic functional material composition comprises 5-95% by weight crosslinked hydrophobic comb-like polymer and 95-5% by weight water-insol. liquid or solid functional material which is uniformly dispersed in the polymer matrix. The functional material include pesticides, pheromones, pharmaceuticals, microbicides, sunscreens, light stabilizers, food flavorants, pigments, or synthetic insect attractants. A mixture containing 60% lauryl methacrylate-40% ethylene glycol dimethacrylate and Grandlure in a 40:60 ratio was heated in a 4.5 mm diameter test tube and cut into plugs 15 mm long. These plugs were suspended in polycarbonate tubing and air was blown around them at 1 L/min at 20° and 10-15% relative humidity; the release of pheromone, as followed by the weight loss of the sample, from the sample was  $1.5 \times 10^{-4}$  g/h. for 50 days.

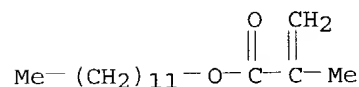
IT **9035-85-2**, Wickenol 707  
 RL: BIOL (Biological study)  
 (hydrophobic polymer lattice matrix containing, sustained-release)  
 RN 9035-85-2 HCAPLUS  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -hexadecyl- $\omega$ -hydroxy- (9CI)  
 (CA INDEX NAME)



IT **119799-06-3**  
 RL: BIOL (Biological study)  
 (lattice matrix, containing emollients, pesticides, pharmaceuticals and pheromones)  
 RN 119799-06-3 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, oxybis(2,1-ethanediyl-oxy-2,1-ethanediyl) ester, polymer with dodecyl 2-methyl-2-propenoate and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 868-77-9  
 CMF C6 H10 O3



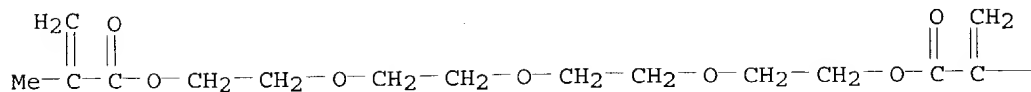
CM 2  
 CRN 142-90-5  
 CMF C16 H30 O2



CM 3  
 CRN 109-17-1  
 CMF C16 H26 O7



PAGE 1-A



PAGE 1-B

— Me

IT 28377-02-8 61181-09-7 61181-29-1  
84110-79-2

RL: BIOL (Biological study)  
(lattice matrix, containing functional materials)

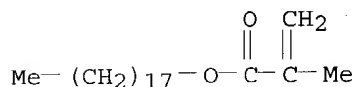
RN 28377-02-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with octadecyl  
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

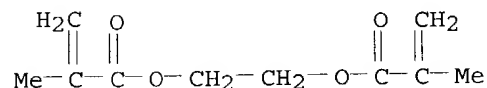
CMF C22 H42 O2



CM 2

CRN 97-90-5

CMF C10 H14 O4



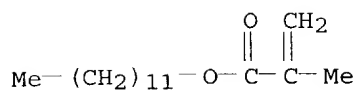
RN 61181-09-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with  
oxybis(2,1-ethanediyl)oxy-2,1-ethanediyl bis(2-methyl-2-propenoate) (9CI)  
(CA INDEX NAME)

CM 1

CRN 142-90-5

CMF C16 H30 O2

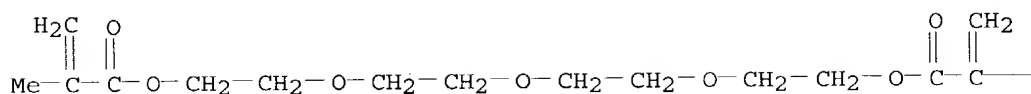


CM 2

CRN 109-17-1

CMF C16 H26 O7

PAGE 1-A



PAGE 1-B

—Me

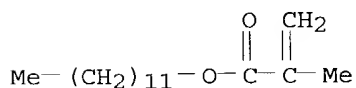
RN 61181-29-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with dodecyl  
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 142-90-5

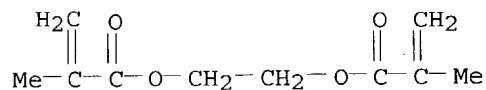
CMF C16 H30 O2



CM 2

CRN 97-90-5

CMF C10 H14 O4

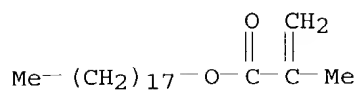


RN 84110-79-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with  
oxybis(2,1-ethanediylloxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) (9CI)  
(CA INDEX NAME)

CM 1

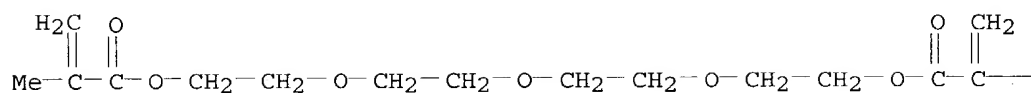
CRN 32360-05-7  
CMF C22 H42 O2



CM 2

CRN 109-17-1  
CMF C16 H26 O7

PAGE 1-A



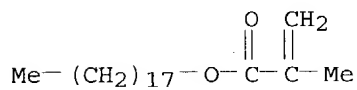
PAGE 1-B

— Me

IT **28377-02-8**  
RL: BIOL (Biological study)  
(lattice matrix, containing pheromones)  
RN 28377-02-8 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with octadecyl  
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

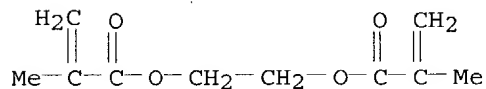
CM 1

CRN 32360-05-7  
CMF C22 H42 O2



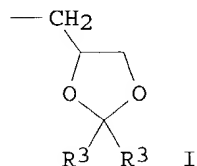
CM 2

CRN 97-90-5  
CMF C10 H14 O4



L49 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1984:546138 HCAPLUS  
 DOCUMENT NUMBER: 101:146138  
 TITLE: Pesticides  
 INVENTOR(S): Ghyczy, Miklos; Wendel, Armin; Etschenberg, Eugen  
 PATENT ASSIGNEE(S): Nattermann, A., und Cie. G.m.b.H., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 85 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3248033	A1	19840628	DE 1982-3248033	19821224
PRIORITY APPLN. INFO.:			DE 1982-3248033	19821224
GI				



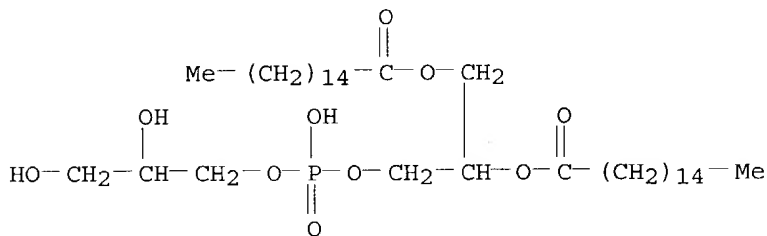
AB The phosphates (R1O)(R2O)PX(O) [X = OH or O-; R1 = alkyl, acyl, alkylene, etc.; R2 = alkyl, acyl, (CH2)<sub>n</sub>YR3, CH2(CHYR3)<sub>m</sub>CH2YR4, CH2CR5R6CH2YR3, I, or CH(CH2YR3)(CH2YR4); R3 and R4 = H, alkyl, or acyl; R5 and R6 = H or C1-4 alkyl; X = OH or O- Y = O, S, or NH; n = 1-8; m = 1-4 enhance the activity of a very large number of known pesticides. Thus, a formulation containing 250 g 2-isopropylphenyl carbamate [122-42-9] and 200 g (2,3-ditetradecyloxy)propyl 2-trimethylammonioethyl phosphate [81303-73-3]/L was as effective an **herbicide** as a conventional formulation, without the phosphate, at a double dose of the active ingredient.

IT 4537-77-3 39036-00-5

RL: BIOL (Biological study)  
 (pesticidal activity enhancement by)

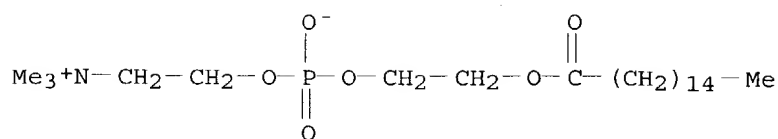
RN 4537-77-3 HCAPLUS

CN Hexadecanoic acid, 1-[[[(2,3-dihydroxypropoxy)hydroxyphosphinyl]oxy]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



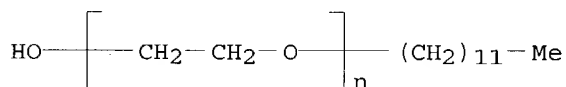
RN 39036-00-5 HCAPLUS

CN 3,5,8-Trioxa-4-phosphatetracosan-1-aminium, 4-hydroxy-N,N,N-trimethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)

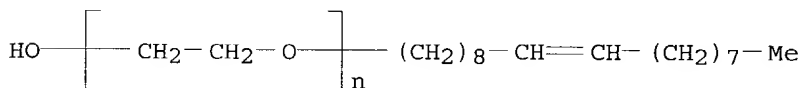


L49 ANSWER 15 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1983:553870 HCAPLUS  
 DOCUMENT NUMBER: 99:153870  
 TITLE: Alkali metal cyanates as **herbicides**  
 PATENT ASSIGNEE(S): Nippon Fine Chemical Co., Ltd., Japan; Sanyo Chemical Industries Ltd.  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

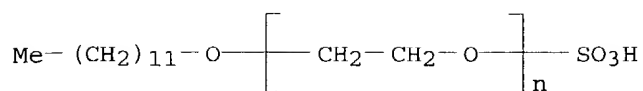
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58118502	A2	19830714	JP 1982-1201	19820107
PRIORITY APPLN. INFO.:			JP 1982-1201	19820107
AB A composition containing alkali metal cyanates and surfactants is a <b>herbicide</b> . Thus, a composition containing Na cyanate (2 kg/150 L/10 are) in oleyl alc. ethyleneoxide addition compound [9004-98-2] (2% with respect to Na cyanate) controlled Echinochloa crus-galli.				
IT 9002-92-0 9004-98-2 32612-48-9 57679-21-7				
RL: BIOL (Biological study) (alkali metal cyanate and, as <b>herbicide</b> )				
RN 9002-92-0 HCAPLUS				
CN Poly(oxy-1,2-ethanediyl), $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)				



RN 9004-98-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(9Z)-9-octadecenyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 32612-48-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-, ammonium salt (9CI) (CA INDEX NAME)

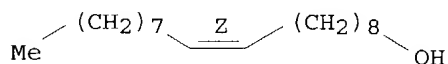


RN 57679-21-7 HCAPLUS  
 CN Oxirane, methyl-, polymer with oxirane, (9Z)-9-octadecenyl ether (9CI)  
 (CA INDEX NAME)

CM 1

CRN 143-28-2  
 CMF C18 H36 O

Double bond geometry as shown.

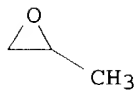


CM 2

CRN 9003-11-6  
 CMF (C3 H6 O . C2 H4 O)x  
 CCI PMS

CM 3

CRN 75-56-9  
 CMF C3 H6 O



CM 4

CRN 75-21-8  
 CMF C2 H4 O



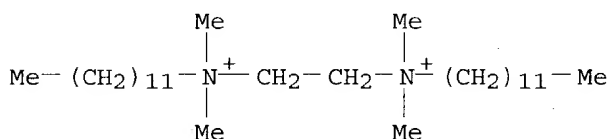
L49 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1970:89142 HCAPLUS  
 DOCUMENT NUMBER: 72:89142  
 TITLE: Herbicidal action of some bis-quaternary ammonium  
 salts and their surface-active properties  
 AUTHOR(S): Supin, G. S.; Sidenko, Z. S.; Stonov, L. D.;  
 Bakumenko, L. A.; Dziomko, V. M.

CORPORATE SOURCE: Vses. Nauch.-Issled. Inst. Khim. Sredstv Zashch.  
Rast., Moscow, USSR  
SOURCE: Zhurnal Obshchei Khimii (1969), 39(12), 2651-3  
CODEN: ZOKHA4; ISSN: 0044-460X  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian

AB The herbicidal properties of 15 bis-quaternary ammonium salts studied in vitro and in vivo during treatment of green plants depended directly on the surface activity of the compds., as measured by the intensity of inhibition of Mn polarographic maximum [Me<sub>3</sub>N<sup>+</sup>(CH<sub>2</sub>)<sub>20</sub>N<sup>+</sup>Me<sub>3</sub>]<sup>2</sup>Br<sup>-</sup> was the most active. Surface activity and herbicidal action generally varied directly with the number of CH<sub>2</sub> groups and inversely with the size of the 3rd N-alkyl group, but were not affected by substitution of Cl<sup>-</sup> for Br<sup>-</sup>.

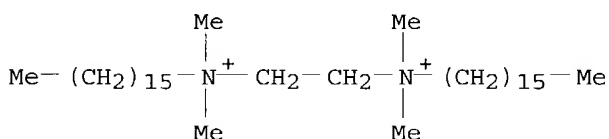
IT 18464-23-8 21948-95-8 21948-96-9  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(herbicidal activity of)

RN 18464-23-8 HCAPLUS  
CN 1,2-Ethanediaminium, N,N'-didodecyl-N,N,N',N'-tetramethyl-, dibromide  
(9CI) (CA INDEX NAME)



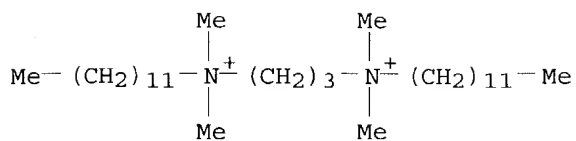
● 2 Br<sup>-</sup>

RN 21948-95-8 HCAPLUS  
CN 1,2-Ethanediaminium, N,N'-dihexadecyl-N,N,N',N'-tetramethyl-, dibromide  
(9CI) (CA INDEX NAME)



● 2 Br<sup>-</sup>

RN 21948-96-9 HCAPLUS  
CN 1,3-Propanediaminium, N,N'-didodecyl-N,N,N',N'-tetramethyl-, dibromide  
(9CI) (CA INDEX NAME)

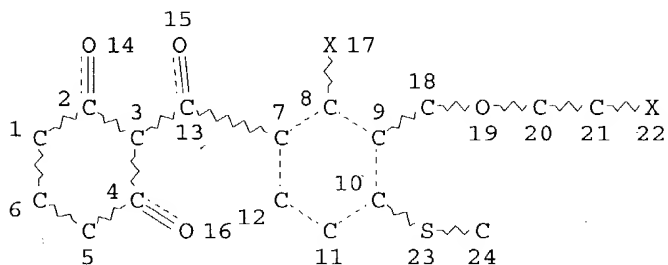


● 2 Br<sup>-</sup>

=> □

=> d stat que

L1 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

L3 69 SEA FILE=REGISTRY SSS FUL L1

L4 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

L10 93985 SEA FILE=REGISTRY ABB=ON PLU=ON ETHOXYL? OR ETHYLENE?

L11 280638 SEA FILE=REGISTRY ABB=ON PLU=ON PROPOX? OR PROPYLEN?

L19 705030 SEA FILE=HCAPLUS ABB=ON PLU=ON L11 OR ?PROPOX? OR ?PROPYLEN?

L39 STR

C—G1—C  
1 2 3

REP G1=(10-10) C

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 3

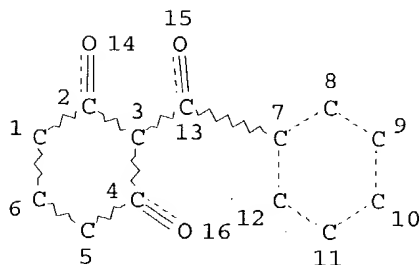
STEREO ATTRIBUTES: NONE

L43 4373 SEA FILE=REGISTRY SUB=L10 SSS FUL L39

L44 9768 SEA FILE=REGISTRY SUB=L11 SSS FUL L39



L45 40432 SEA FILE=HCAPLUS ABB=ON PLU=ON L43  
 L46 12322 SEA FILE=HCAPLUS ABB=ON PLU=ON L44  
 L47 2977 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46  
 L48 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND HERBICIDE  
 L49 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L48 NOT L4  
 L57 STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

L59 2707 SEA FILE=REGISTRY SSS FUL L57  
 L61 525 SEA FILE=HCAPLUS ABB=ON PLU=ON L59  
 L62 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L61 AND 18  
 L63 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L62 AND L19  
 L64 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L63 NOT (L4 OR L49)

=>  
=>

=> d ibib abs hitstr l64 1

L64 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1999:139840 HCAPLUS  
 DOCUMENT NUMBER: 130:196572  
 TITLE: Preparation of benzothiophenes as herbicides  
 INVENTOR(S): Rempfler, Hermann; Edmunds, Andrew; De, Mesmaeker  
 Alain; Seckinger, Karl  
 PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen; De  
 Mesmaeker, Alain  
 SOURCE: PCT Int. Appl., 115 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

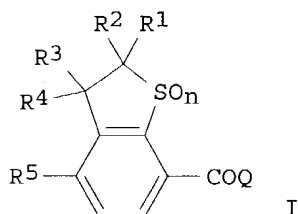
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9909023	A1	19990225	WO 1998-EP5247	19980818
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				
DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,				
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,				
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,				
UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,  
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,  
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9893441	A1	19990308	AU 1998-93441	19980818
AU 732154	B2	20010412		
EP 1005467	A1	20000607	EP 1998-946374	19980818
R: DE, FR, GB, IT				
BR 9811314	A	20000829	BR 1998-11314	19980818

PRIORITY APPLN. INFO.:	CH 1997-1950	A	19970820
	WO 1998-EP5247	W	19980818

OTHER SOURCE(S): MARPAT 130:196572  
GI



AB Title compds. [I; R1 = alkyl, haloalkyl, alkoxyalkyl, alkoxyacarbonyl, cyano, cyanoalkyl, hydroxyalkyl, aminoalkyl, CHO, alkenyl, alkoxyacarbonylalkenyl, CH(OR20)OR21, etc.; R20, R21 = alkyl; R2OR21 = (CH2)n1; n1 = 2, 3, 4; R2 = H, alkyl; R3, R4 = H, alkyl, halo; n = 0, 1, 2; R5 = alkyl, haloalkyl, alkenyl, alkynyl, alkoxy, haloalkoxy, XSON2, X2NSO2, XS(O)2O, halo, NO2, cyano; X = alkyl; n2 = 0, 1, 2; Q = OH, halo, hydroxypyrazolyl, isoxazolyl, dioxocyclohexyl, etc.], were prepared Thus, 1,3-dimethylpyrazol-5-one and Et3N in EtOAc at 5° were treated with 4-chloro-2-methyl-2,3-dihydrobenzo[b]thiophene-7-carbonyl chloride in EtOAc and the mixture was stirred 18 h at 22° to give (2,3-dihydro-4-chloro-2-methylbenzo[b]thiophene-7-yl)(1,3-dimethyl-5-hydroxy-1H-pyrazol-4-yl)methanone. The latter at 2000 g/ha preemergent gave very good herbicidal action against Solanum.

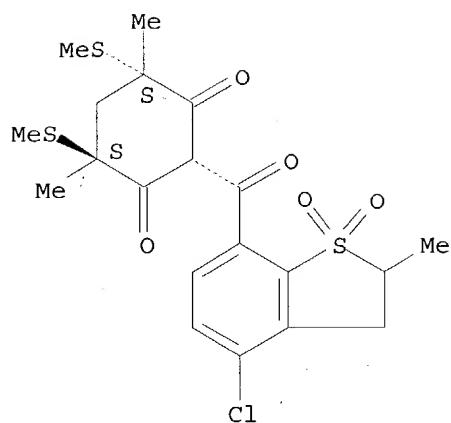
IT 220759-66-0P 220759-67-1P 220770-87-6P  
220770-91-2P 220770-94-5P 220770-97-8P  
220771-01-7P 220771-05-1P 220771-09-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of benzothiophenes as herbicides)

RN 220759-66-0 HCAPLUS

CN 1,3-Cyclohexanedione, 2-[(4-chloro-2,3-dihydro-2-methyl-1,1-dioxidobenzo[b]thien-7-yl)carbonyl]-4,6-dimethyl-4,6-bis(methylthio)-, (4R,6R)-rel- (9CI) (CA INDEX NAME)

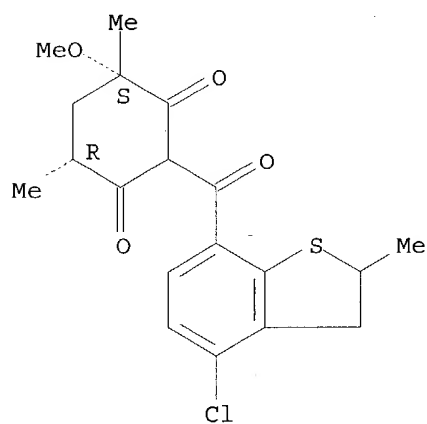
Relative stereochemistry.



RN 220759-67-1 HCAPLUS

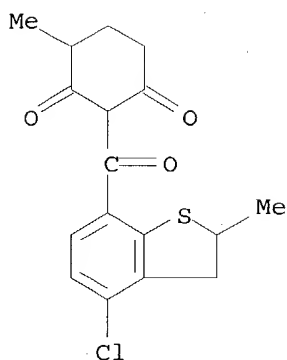
CN 1,3-Cyclohexanedione, 2-[(4-chloro-2,3-dihydro-2-methylbenzo[b]thien-7-yl)carbonyl]-4-methoxy-4,6-dimethyl-, (4R,6S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



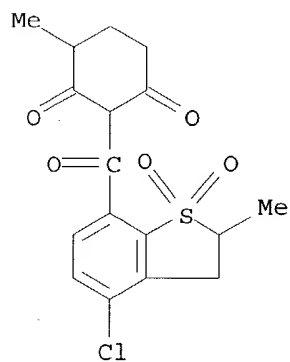
RN 220770-87-6 HCAPLUS

CN 1,3-Cyclohexanedione, 2-[(4-chloro-2,3-dihydro-2-methylbenzo[b]thien-7-yl)carbonyl]-4,4(or 4,6)-dimethyl- (9CI) (CA INDEX NAME)



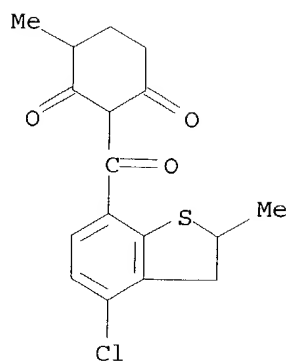
D1-Me

RN 220770-91-2 HCAPLUS  
 CN 1,3-Cyclohexanedione, 2-[(4-chloro-2,3-dihydro-2-methyl-1,1-dioxidobenzo[b]thien-7-yl)carbonyl]-4,4(or 4,6)-dimethyl- (9CI) (CA INDEX NAME)



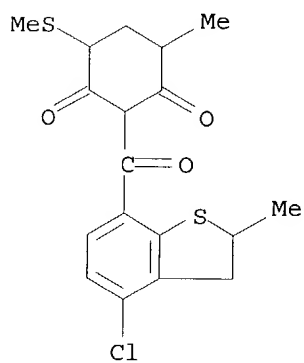
D1-Me

RN 220770-94-5 HCAPLUS  
 CN 1,3-Cyclohexanedione, 2-[(4-chloro-2,3-dihydro-2-methylbenzo[b]thien-7-yl)carbonyl]-4-methyl-4(or 6)-(methylthio)- (9CI) (CA INDEX NAME)



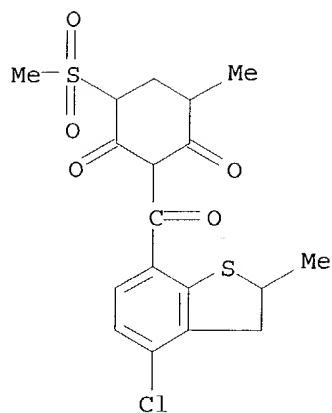
D1-S-Me

RN 220770-97-8 HCAPLUS  
CN 1,3-Cyclohexanedione, 2-[(4-chloro-2,3-dihydro-2-methylbenzo[b]thien-7-yl)carbonyl]-4,4(or 4,6)-dimethyl-6-(methylthio)- (9CI) (CA INDEX NAME)



D1-Me

RN 220771-01-7 HCAPLUS  
CN 1,3-Cyclohexanedione, 2-[(4-chloro-2,3-dihydro-2-methylbenzo[b]thien-7-yl)carbonyl]-4,4(or 4,6)-dimethyl-6-(methylsulfonyl)- (9CI) (CA INDEX NAME)

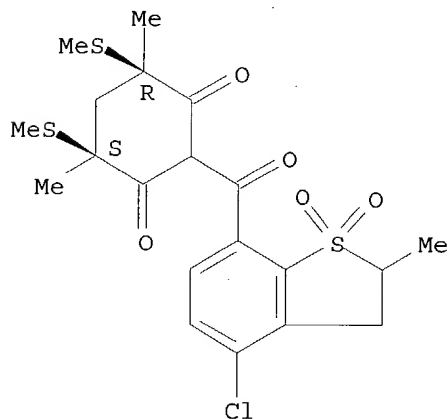


D1-Me

RN 220771-05-1 HCAPLUS

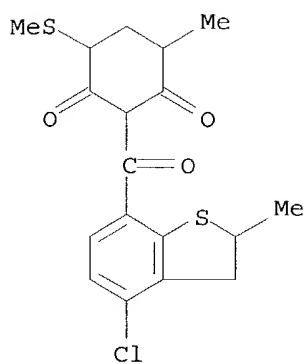
CN 1,3-Cyclohexanedione, 2-[(4-chloro-2,3-dihydro-2-methyl-1,1-dioxidobenzo[b]thien-7-yl)carbonyl]-4,6-dimethyl-4,6-bis(methylthio)-, (4R,6S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 220771-09-5 HCAPLUS

CN 1,3-Cyclohexanedione, 2-[(4-chloro-2,3-dihydro-2-methylbenzo[b]thien-7-yl)carbonyl]-4(or 6)-methoxy-4-methyl-6-(methylthio)- (9CI) (CA INDEX NAME)



D1-O-Me

IT 106-95-6, Allyl bromide, reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of benzothiophenes as herbicides)  
 RN 106-95-6 HCAPLUS  
 CN 1-Propene, 3-bromo- (9CI) (CA INDEX NAME)

Br-CH<sub>2</sub>-CH=CH<sub>2</sub>

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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